

FACULTY OF EDUCATION

SYLLABUS

FOR

B.A. B.Ed. (Four Years Integrated Degree Programme)

(SEMESTER: I–IV)

Examinations: 2019–20



GURU NANAK DEV UNIVERSITY

AMRITSAR

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 - (ii) Subject to change in the syllabi at any time.
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B.A. B.ED. (FOUR YEARS INTEGRATED DEGREE PROGRAMME)

SEMESTER-I

Paper	Course Title	Marks
	Perspectives in Education	
I	Yoga Education	50
	Curriculum and Pedagogic Studies	
II	English (General)	50
III	Regional Language (Punjabi General)	50
	*Mudhli Punjabi (In lieu of (Punjabi Compulsory))	50
	*Punjab History & Culture (From Earliest Times to C 320) (In lieu of (Punjabi Compulsory))	50
IV	Stream 1- Elective English/ Elective Punjabi/ Elective Hindi/ Philosophy/ Psychology/ Sociology	100
V & VI	Stream 2- Maths / Computer/ Economics	200
	Stream 3- History/Geography/Pol. Sci./Economics	
	Stream 4- Philosophy/ Psychology/ Sociology	
	Development of Self	
EPC 1	Life Skills Education	50
VII	** Drug Abuse: Problem, Management and Prevention (Compulsory Paper)	50
	Total	500

Note –

- Paper I,II,III and EPC 1 are compulsory for all
- Students are to select any one subject from stream 1
- Students are to select any one stream from stream 2,3 and 4
- Students are to select any two subjects from the selected stream
- The selected stream and subjects selected will remain same throughout the course. Students will not be allowed to change the selected stream and subjects
- Credit Hours where not specified will be governed by ordinances of B.A./B.Sc. programmes of the university.
- Syllabus of Philosophy, Psychology and Sociology in stream 1 will be same as that of in stream 4. Candidates will not be allowed to take same subjects from stream 1 and stream 4.
- *(Special Paper in lieu of Punjabi Compulsory)
(For those students who are not domicile of Punjab)
- ** Marks of this Paper will not be included in the Total Marks.

SEMESTER-II

Paper	Course Title	Marks
	Perspectives in Education	
I	Environmental Education	50
	Curriculum and Pedagogic Studies	
II	English (General)	50
III	Regional Language (Punjabi General)	50
	*Mudhli Punjabi (In lieu of (Punjabi Compulsory))	50
	*Punjab History & Culture (From Earliest Times to C 320) (In lieu of (Punjabi Compulsory))	50
IV	Stream 1- Elective English/ Elective Punjabi/ Elective Hindi/ Philosophy/ Psychology/ Sociology	100
V & VI	Stream 2- Maths / Computer/ Economics	200
	Stream 3- History/Geography/Pol. Sci./Economics	
	Stream 4- Philosophy/ Psychology/ Sociology	
	Development of Self	
EPC 2	Understanding the Self	50
VII	** Drug Abuse: Problem, Management and Prevention (Compulsory Paper)	50
	Total	500

Note:-

- *(Special Paper in lieu of Punjabi Compulsory)
(For those students who are not domicile of Punjab)
- ** Marks of this Paper will not be included in the Total Marks.

SEMESTER-III

Paper	Course Title	Marks		
		T	P	Internship
	Perspectives in Education			
I	Understanding Education and its Perspectives	100		
II	Gender, School and Society	50		
	Curriculum and Pedagogic Studies			
III	English (General)	50		
IV	Regional Language (Punjabi General)	50		
	*Mudhli Punjabi (In lieu of (Punjabi Compulsory))	50		
	*Punjab History & Culture (From Earliest Times to C 320) (In lieu of (Punjabi Compulsory))	50		
V, VI & VII	Stream 1- Elective English/ Elective Punjabi/ Elective Hindi/ Philosophy/ Psychology/ Sociology	100		
	Stream 2- Maths / Computer/ Economics			
	Stream 3- History/Geography/Pol. Sci./Economics	200		
	Stream 4- Philosophy/ Psychology/ Sociology			
VIII	**Drug Abuse: Problem, Management and Prevention (Compulsory Paper) (Only for those students who have not studied this paper in Semester-I)			
	Total	550		

Note:-

*(Special Paper in lieu of Punjabi Compulsory)

(For those students who are not domicile of Punjab)

** Marks of this Paper will not be included in the Total Marks.

SEMESTER-IV

Paper	Course Title	Marks		
		T	P	Internship
	Perspectives in Education			
I	Language Proficiency and Communication Skills	50		
	Curriculum and Pedagogic Studies			
II	English (General)	50		
III	Regional Language (Punjabi General)	50		
	*Mudhli Punjabi (In lieu of (Punjabi Compulsory))	50		
	*Punjab History & Culture (From Earliest Times to C 320) (In lieu of (Punjabi Compulsory))	50		
IV & V	Stream 1- Elective English/ Elective Punjabi/ Elective Hindi/ Philosophy/ Psychology/ Sociology	100		
	Stream 2- Maths / Computer/ Economics			
	Stream 3- History/Geography/Pol. Sci./Economics	200		
	Stream 4- Philosophy/ Psychology/ Sociology			
EPC 3	Drama and Art in education	50		
VI	** Environmental Studies (Compulsory)			
VII	***Drug Abuse: Problem, Management and Prevention (Compulsory Paper) (Only for those students who have not studied this paper in Semester-II)			
	Total	500		

Note:-

*(Special Paper in lieu of Punjabi Compulsory)

(For those students who are not domicile of Punjab)

** Marks of Paper EVS will not be included in Grand Total.

*** Marks of this Paper will not be included in the Total Marks.

**SEMESTER-I
PAPER-I
YOGA EDUCATION**

Time 1: 30 Hrs.

Total Marks: 50

Terminal: 35

Sessional: 15

Instructions for the Paper Setters:-

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

Course Objectives

After the completion of the course, the student teacher will be able to:

- Know the historical and philosophical background of Yoga.
- Understand different types of Yoga
- Correlate Yoga with Education
- Manage stress through Yoga
- Perform major Yogic Asanas.

SECTION-A

YOGA

- a) **Yoga:** Historical and philosophical background, Meaning, importance.
- b) Concept and educational implications of:
 - i) Raj yoga
 - ii) Hath yoga
 - iii) Jnana yoga
 - iv) Bhakti yoga
 - v) Karma yoga

SECTION-B

Major Yogic Texts: Nature of Chitta – Vritties, Concept of Vidya and Moksha. (Patanjali's Yoga Sutra)

SECTION-C

EDUCATION AND YOGA

- a) Education and Yoga - Promotion of intelligence, awareness and creativity through Yoga.

SECTION-D

- a) Stress and Yoga: Stress – Definition, Causes, Symptoms, Complications in life; Yogic management of stress related disorders – Anxiety, Depression and Suicidal tendencies.
- b) Importance of Meditation in school

SEMESTER-I**SESSIONAL WORK:****Performance in Unit tests and House examination: 05 Marks****Attendance: 02 Marks****Assignment on the following (ANY TWO): 08 Marks**

- Preparation of a file (project report of the selected five asana, three physiological, psychological effects on human body).
- Participation in any five Asanas of the following: Shavasana, Sarvangasana, Halasana, Paschimottanasana, Bhujangasana, Dhanurashna, Chakrasana, Vajrasana, Gomukhasana, Matsyanana, Janu- Shirasana, Ardhmatsyendrasana, Padmasana.
- Participation in Neti, Kapalbhathi, Tratak Anulom- Vilom, Bhramari, Shitali, Ujjai Pranayam.

References:-

- Bijlani, R. (2010). *Back to Health through Yoga*. New Delhi: Rupa & Co.
- Gupta, S.N. Das. (1987). *Yoga Philosophy in Relation to Other System of Indian Thought*. New Delhi: Moti Lal
- Dass, B., & Hota, B. (2008). *Yoga for School Children*. New Delhi: Rupa & Co.
- Iyengar, B.K.S. (2005). *Light on life*. Oxford, Pan Macmillan Ltd.
- Iyengar, B.K.S. (2008). *Light on Yoga*. New Delhi: Harper Collins.
- Iyengar, B.K.S. (2009). *The Tree of Yoga*. New Delhi: Harper Collins.
- Iyengar, B.K.S. (2010). *Light on Pranayama*. New Delhi: Harper Collins.
- Kuvalayananda, Swami & Dr. S.L. Vinekar, (1971). *Yoga Therapy, Kaivalyadhama, Lonavala*.
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- Lal, Raman Bihari. (2008). *Siksha Ke Daarshnik Evam Samajshastriye Sidhant*. Meerut: Rastogi Publications.
- Nagendra, H.R. (1993). *Yoga in Education*. Bangalore: Vivekananda Kendra.
- Niranjananada, Swami. (1998). *Yoga Darshan*. Deoghar, Panchadashanam Paramahansa Alakh Bara.
- Rai, Lajpat, Sawhney, R.C. and Selvamurthy, W.Selvamurthy (1998). *Meditation Techniques, their Scientific Evaluation*. Gurgaon: Anubhav Rai Publication.
- Raju, P.T. (1982). *The Philosophical Traditions of India*. Delhi: Moti Lal Banarsi Dass.
- Ram, Swami. (1999). *A Practical Guide to Holistic Health*. Pennsylvania, Himalayan Institute of Yoga.
- Reyna, R. (1971). *Introduction to Indian Philosophy*. New Delhi: Tata McGraw-Hill Publishing Co. Ltd.
- Saraswati, Swami Satyananda. (2005). *Asana, Pranayama, Mudra, Bandha*. Munger, Bihar School of Yoga.
- Singleton, M. (2010). *Yoga Body – The Origins of Modern Posture Practice*. Oxford, Oxford University Press.
- Sivananda, Sri Swami. (2007). *Janana Yoga*. Tehri Garhwal, The Divine Life Society.
- Taimini, I.K. (1979). *The Science of Yoga*. Madras: Adyar Publication.
- Venkakswaram, P.S. (2008). *Yoga for Healing*. New Delhi: Jaico Publishing House.
- Villodo, A. (2007). *Yoga, Power and Spirit*. New Delhi: Hay House Inc.
- Vivekananda, S. (2007). *Raj Yoga*. Calcutta: Ramakrishna Vedanta Math.
- Vivekananda, S. (2009). *Complete Book of Yoga*. Delhi: Vijay Goel Publisher.
- Yogindra, Shri, (1970). *Yoga Hygiene Simplified*. The Yoga Institute Bombay.

SEMESTER-I**PAPER-II: ENGLISH (COMPULSORY)****Time: 3 Hours****Max. Marks: 50****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

Texts Prescribed:-

1. *Tales of Life* (Guru Nanak Dev University, Amritsar) Stories at Sr.No.1, 2, 3, 5 and 6
2. *Prose for Young Learners* (Guru Nanak Dev University, Amritsar) Essays at Sr. No. 1, 2, 3, 5 and 6
3. *English Grammar in Use* (Fourth Edition) by Raymond Murphy, CUP

The syllabus is divided in four sections as mentioned below.

SECTION-A

English Grammar in Use, 4th Edition by Raymond Murphy, CUP (Units: 1-37)

SECTION-B

Paragraph Writing and English Grammar in Use (Units: 38-48)

SECTION-C

Tales of Life (Guru Nanak Dev University, Amritsar): Stories at Sr. No. 1, 2, 3, 5 and 6

SECTION-D

Prose for Young Learners: Essays at Sr. No. 1, 2, 3, 5 and 6

SEMESTER-I

PAPER-III: PUNJABI (COMPULSORY) ਪੰਜਾਬੀ (ਲਾਜ਼ਮੀ)

ਸਮਾਂ : 3 ਘੰਟੇ

ਕੁਲ ਅੰਕ : 50

ਅੰਕ-ਵੰਡ ਅਤੇ ਪਰੀਖਿਅਕ ਲਈ ਹਦਾਇਤਾਂ

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੇ ਚਾਰ ਭਾਗ ਹੋਣਗੇ। ਹਰ ਭਾਗ ਵਿੱਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
2. ਵਿਦਿਆਰਥੀ ਨੇ ਕੁੱਲ ਪੰਜ ਪ੍ਰਸ਼ਨ ਕਰਨੇ ਹਨ। ਹਰ ਭਾਗ ਵਿੱਚੋਂ ਇੱਕ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੈ। ਪੰਜਵਾਂ ਪ੍ਰਸ਼ਨ ਕਿਸੇ ਵੀ ਭਾਗ ਵਿੱਚੋਂ ਕੀਤਾ ਜਾ ਸਕਦਾ ਹੈ।
3. ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦੇ ਬਰਾਬਰ ਅੰਕ ਹਨ।
4. ਪੇਪਰ ਸੈੱਟ ਕਰਨ ਵਾਲਾ ਜੇਕਰ ਚਾਹੇ ਤਾਂ ਪ੍ਰਸ਼ਨਾਂ ਦੀ ਵੰਡ ਅੱਗੋਂ ਵੱਧ ਤੋਂ ਵੱਧ ਚਾਰ ਉਪ-ਪ੍ਰਸ਼ਨਾਂ ਵਿੱਚ ਕਰ ਸਕਦਾ ਹੈ।

ਪਾਠ-ਕ੍ਰਮ ਅਤੇ ਪਾਠ-ਪੁਸਤਕਾਂ

ਸੈਕਸ਼ਨ - ਏ

ਦੋ ਰੰਗ (ਕਵਿਤਾ ਭਾਗ) (ਸੰਪਾ. ਹਰਜਿੰਦਰ ਸਿੰਘ ਢਿੱਲੋਂ ਅਤੇ ਪ੍ਰੀਤਮ ਸਿੰਘ ਸਰਗੋਧੀਆ),
ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਯੂਨੀਵਰਸਿਟੀ, ਅੰਮ੍ਰਿਤਸਰ।

(ਲੇਖਕ ਦਾ ਜੀਵਨ ਤੇ ਰਚਨਾ / ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ/ਕਵਿਤਾ ਦਾ ਵਿਸ਼ਾ-ਵਸਤੂ)

ਸੈਕਸ਼ਨ - ਬੀ

ਸੰਸਾਰ ਦੀਆਂ ਪ੍ਰਸਿੱਧ ਹਸਤੀਆਂ (ਜੀਵਨੀ ਨੰ: 1 ਤੋਂ 9 ਤੱਕ)

(ਸੰਪਾ. ਪ੍ਰਿੰ. ਤੇਜਾ ਸਿੰਘ, ਹਰਨਾਮ ਸਿੰਘ ਸ਼ਾਮ),

ਪੰਜਾਬੀ ਸਾਹਿਤ ਪ੍ਰਕਾਸ਼ਨ, ਅੰਮ੍ਰਿਤਸਰ।

(ਵਿਸ਼ਾ-ਵਸਤੂ/ਸਾਰ/ਨਾਇਕ ਬਿੰਬ)

ਸੈਕਸ਼ਨ - ਸੀ

(ੳ) ਪੈਰਾ ਰਚਨਾ (ਤਿੰਨ ਵਿੱਚੋਂ ਇੱਕ)

(ਅ) ਪੈਰਾ ਪੜ੍ਹ ਕੇ ਪ੍ਰਸ਼ਨਾਂ ਦੇ ਉੱਤਰ।

ਸੈਕਸ਼ਨ - ਡੀ

(ੳ) ਭਾਸ਼ਾ ਵੰਨਗੀਆਂ : ਭਾਸ਼ਾ ਦਾ ਟਕਸਾਲੀ ਰੂਪ, ਭਾਸ਼ਾ ਅਤੇ ਉਪ-ਭਾਸ਼ਾ ਵਿਚ ਅੰਤਰ, ਪੰਜਾਬੀ ਉਪਭਾਸ਼ਾਵਾਂ ਦੇ ਪਛਾਣ-ਚਿੰਨ੍ਹ।

(ਅ) ਪੰਜਾਬੀ ਭਾਸ਼ਾ : ਨਿਕਾਸ ਤੇ ਵਿਕਾਸ

SEMESTER-I

Mudhli Punjabi

ਮੁੱਢਲੀ ਪੰਜਾਬੀ

(In lieu of Compulsory Punjabi)

ਸਮਾਂ : 3 ਘੰਟੇ

ਕੁਲ ਅੰਕ: 50

ਅੰਕ-ਵੰਡ ਅਤੇ ਪਰੀਖਿਅਕ ਲਈ ਹਦਾਇਤਾਂ

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੇ ਚਾਰ ਭਾਗ ਹੋਣਗੇ। ਹਰ ਭਾਗ ਵਿਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
2. ਵਿਦਿਆਰਥੀ ਨੇ ਕੁੱਲ ਪੰਜ ਪ੍ਰਸ਼ਨ ਕਰਨੇ ਹਨ। ਹਰ ਭਾਗ ਵਿਚੋਂ ਇਕ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੈ। ਪੰਜਵਾਂ ਪ੍ਰਸ਼ਨ ਕਿਸੇ ਵੀ ਭਾਗ ਵਿਚੋਂ ਕੀਤਾ ਜਾ ਸਕਦਾ ਹੈ।
3. ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦੇ ਬਰਾਬਰ ਅੰਕ ਹਨ।
4. ਪੇਪਰ ਸੈੱਟ ਕਰਨ ਵਾਲਾ ਜੇਕਰ ਚਾਹੇ ਤਾਂ ਪ੍ਰਸ਼ਨਾਂ ਦੀ ਵੰਡ ਅੱਗੋਂ ਵੱਧ ਤੋਂ ਵੱਧ ਚਾਰ ਉਪ-ਪ੍ਰਸ਼ਨਾਂ ਵਿਚ ਕਰ ਸਕਦਾ ਹੈ।

ਪਾਠ-ਕ੍ਰਮ

ਸੈਕਸ਼ਨ-ਏ

ਪੈਂਤੀ ਅੱਖਰੀ, ਅੱਖਰ ਕ੍ਰਮ, ਪੈਰ ਬਿੰਦੀ ਵਾਲੇ ਵਰਣ ਅਤੇ ਪੈਰ ਵਿਚ ਪੈਣ ਵਾਲੇ ਵਰਣ ਅਤੇ ਮਾਤ੍ਰਵਾਂ (ਮੁੱਢਲੀ ਜਾਣ-ਪਛਾਣ)

ਲਗਾਖਰ (ਬਿੰਦੀ, ਟਿੱਪੀ, ਅੱਧਕ) : ਪਛਾਣ ਅਤੇ ਵਰਤੋਂ

ਸੈਕਸ਼ਨ-ਬੀ

ਪੰਜਾਬੀ ਸ਼ਬਦ-ਬਣਤਰ : ਮੁੱਢਲੀ ਜਾਣ-ਪਛਾਣ

(ਸਾਧਾਰਨ ਸ਼ਬਦ, ਸੰਯੁਕਤ ਸ਼ਬਦ, ਮਿਸ਼ਰਤ ਸ਼ਬਦ, ਮੂਲ ਸ਼ਬਦ, ਅਗੇਤਰ ਅਤੇ ਪਿਛੇਤਰ)

ਸੈਕਸ਼ਨ-ਸੀ

ਨਿੱਤ ਵਰਤੋਂ ਦੀ ਪੰਜਾਬੀ ਸ਼ਬਦਾਵਲੀ : ਬਾਜ਼ਾਰ, ਵਪਾਰ, ਰਿਸ਼ਤੇ-ਨਾਤੇ, ਖੇਤੀ ਅਤੇ ਹੋਰ ਧੰਦਿਆਂ ਆਦਿ ਨਾਲ ਸੰਬੰਧਤ।

ਸੈਕਸ਼ਨ-ਡੀ

ਹਫ਼ਤੇ ਦੇ ਸੱਤ ਦਿਨਾਂ ਦੇ ਨਾਂ, ਬਾਰ੍ਹਾਂ ਮਹੀਨਿਆਂ ਦੇ ਨਾਂ, ਰੁੱਤਾਂ ਦੇ ਨਾਂ, ਇਕ ਤੋਂ ਸੌ ਤਕ ਗਿਣਤੀ ਸ਼ਬਦਾਂ ਵਿਚ

SEMESTER-I

**Punjab History & Culture (From Earliest Times to C 320)
(Special Paper in lieu of Punjabi Compulsory)
(For those students who are not domicile of Punjab)**

Time: 3 Hours**Max. Marks: 50****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

1. Physical features of the Punjab and impact on history.
2. Sources of the ancient history of Punjab

SECTION-B

3. Harappan Civilization: Town planning; social, economic and religious life of the Indus Valley People.
4. The Indo-Aryans: Original home and settlement in Punjab.

SECTION-C

5. Social, Religious and Economic life during later *Rig Vedic Age*.
6. Social, Religious and Economic life during later *Vedic Age*.

SECTION-D

7. Teaching and impact of Buddhism
8. Jainism in the Punjab

Suggested Readings:-

1. L. Joshi (ed): *History and Culture of the Punjab*, Art-I, Patiala, 1989 (3rd edition)
2. L.M. Joshi and Fauja Singh (ed); *History of Punjab*, Vol.I, Patiala 1977.
3. Budha Parkash: *Glimpses of Ancient Punjab*, Patiala, 1983.
4. B.N. Sharma: *Life in Northern India*, Delhi. 1966.
5. Chhokra, P.N., Puri, B.N., & Das, M.N.(1974). *A Social Cultior & Economic History of India, Vol. I, New Delhi: Mcmillan India.*

SEMESTER-I**PAPER-IV, STREAM-1
ENGLISH (ELECTIVE)****Time: 3 Hours****Max. Marks: 100****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

Prescribed Books:-

1. *A Doll's House* by Henrik Ibsen (preferably Penguin Classics Edition)
2. *Spots of Time* G.N.D.U. Amritsar
3. *Glossary of Literary Terms* by M.H. Abrams, Wadsworth CENGAGE Learning Publishers, 8th Edition, 2008.
4. *Better Pronunciation of English* by J.D.O'Connor

The syllabus is divided in four sections as mentioned below:**SECTION-A**

- a) Literary Terms: Ballad, Character, Comedy, Conceit, Epic, Irony, Plot, Paradox
- b) Transcription of Words: comb, crèche, dose, gauge, ghost, castle, gross, mauve, sure sample, wolf, wool, arch, off, of, door, stair, what, cough, clerk, tooth, yak, yawn, sing, tongue.

SECTION-B

Spots of Time: Poems at serial No. 1,2,3,5,7,8,9

SECTION-C

Spots of Time: Poems at serial No. 10-12, 14, 19, 20

SECTION-D

A Doll's House by Henrik Ibsen

SEMESTER-I

PAPER-IV, STREAM-1
PUNJABI (ELECTIVE) ਪੰਜਾਬੀ (ਇਲੈਕਟਿਵ)

ਸਮਾਂ : 3 ਘੰਟੇ

ਕੁਲ ਅੰਕ: 100

ਅੰਕ-ਵੰਡ ਅਤੇ ਪਰੀਖਿਅਕ ਲਈ ਹਦਾਇਤਾਂ

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੇ ਚਾਰ ਭਾਗ ਹੋਣਗੇ। ਹਰ ਭਾਗ ਵਿਚ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
2. ਵਿਦਿਆਰਥੀ ਨੇ ਕੁੱਲ ਪੰਜ ਪ੍ਰਸ਼ਨ ਕਰਨੇ ਹਨ। ਹਰ ਭਾਗ ਵਿਚੋਂ ਇਕ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੈ। ਪੰਜਵਾਂ ਪ੍ਰਸ਼ਨ ਕਿਸੇ ਵੀ ਭਾਗ ਵਿਚੋਂ ਕੀਤਾ ਜਾ ਸਕਦਾ ਹੈ।
3. ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦੇ ਬਰਾਬਰ ਅੰਕ ਹਨ।
4. ਪੇਪਰ ਸੈੱਟ ਕਰਨ ਵਾਲਾ ਜੇਕਰ ਚਾਹੇ ਤਾਂ ਪ੍ਰਸ਼ਨਾਂ ਦੀ ਵੰਡ ਅੱਗੋਂ ਵੱਧ ਤੋਂ ਵੱਧ ਚਾਰ ਉਪ-ਪ੍ਰਸ਼ਨਾਂ ਵਿਚ ਕਰ ਸਕਦਾ ਹੈ।

ਪਾਠ-ਕ੍ਰਮ ਅਤੇ ਪਾਠ-ਪੁਸਤਕਾਂ

ਸੈਕਸ਼ਨ- ਏ

ਸੁਖਨ ਦੇ ਸੂਰਜ (ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਕਾਵਿ-ਸੰਗ੍ਰਹਿ : 1901-1995),
(ਸੰਪਾ. ਡਾ. ਬਲਜੀਤ ਕੌਰ ਅਤੇ ਡਾ. ਟੀ.ਡੀ. ਜੋਸ਼ੀ), ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਯੂਨੀਵਰਸਿਟੀ, ਅੰਮ੍ਰਿਤਸਰ।
ਕਵੀ : ਭਾਈ ਵੀਰ ਸਿੰਘ, ਪ੍ਰੋ. ਪੂਰਨ ਸਿੰਘ, ਮੋਹਨ ਸਿੰਘ, ਅੰਮ੍ਰਿਤਾ ਪ੍ਰੀਤਮ, ਬਾਵਾ ਬਲਵੰਤ, ਸ਼ਿਵ ਕੁਮਾਰ, ਜਗਤਾਰ,
ਪਾਸ਼, ਸੁਰਜੀਤ ਪਾਤਰ।

(ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ/ਵਿਸ਼ਾ-ਵਸਤੂ/ਸਾਰ)

ਸੈਕਸ਼ਨ- ਬੀ

ਸੂਰਜਾਂ ਦੇ ਹਾਣੀ (ਨਾਵਲ) - ਉਜਾਗਰ ਸਿੰਘ ਕੰਵਲ
ਚੇਤਨਾ ਪ੍ਰਕਾਸ਼ਨ, ਚੰਡੀਗੜ੍ਹ।
(ਲੇਖਕ ਦਾ ਜੀਵਨ ਤੇ ਰਚਨਾ/ਵਿਸ਼ਾ-ਵਸਤੂ/ਬਿਰਤਾਂਤਕ ਜੁਗਤਾਂ/ਪਾਤਰ-ਉਸਾਰੀ)

ਸੈਕਸ਼ਨ- ਸੀ

ਭਾਰਤੀ ਕਾਵਿ- ਸ਼ਾਸਤਰ : ਪਰਿਭਾਸ਼ਾ, ਸੰਪਰਦਾਵਾਂ
(ਧੁਨੀ ਸੰਪਰਦਾ, ਰਸ ਸੰਪਰਦਾ, ਅਲੰਕਾਰ ਸੰਪਰਦਾ) (ਸੰਖੇਪ ਜਾਣਕਾਰੀ)

ਸੈਕਸ਼ਨ- ਡੀ

ਅਰਥ ਵਿਗਿਆਨ : ਪਰਿਭਾਸ਼ਾ, ਸਫੇਟ ਅਤੇ ਅਪੇਰ ਸਿਧਾਂਤ, ਅਰਥ ਆਧਾਰਿਤ ਸ਼ਬਦ ਵੰਨਗੀਆਂ : ਬਹੁਅਰਥਕ,
ਸਮਾਨਅਰਥਕ, ਵਿਰੋਧਾਰਥਕ ਸ਼ਬਦ, ਅਰਥ ਪਰਿਵਰਤਨ।

SEMESTER-I

PAPER-IV, STREAM-1
HINDI (ELECTIVE)

आधुनिक कविता, व्याकरण तथा अनुवाद

समय- 3 घण्टे

पूर्णांक: 100

Instructions for the Paper Setters:-

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

सैक्शन-ए

व्याख्या के लिए निर्धारित कृति

काव्य पथ: संपादक- डॉ. सुधा जितेन्द्र, प्रकाशक-गुरु नानक देव यूनिवर्सिटी, अमृतसर, 8 कवि रखे गए हैं। 1 से 7 और 9।

सैक्शन-बी

काव्यपथ पुस्तक में निर्धारित कवियों का सामान्य परिचय एवं कविताओं से सम्बन्धित प्रश्न।

सैक्शन-सी

आदर्श हिन्दी व्याकरण तथा सैद्धांतिकी : डॉ. एच.एम.एल. सूद, वागीश प्रकाशन, जालंधर। हिन्दी व्यावहारिक व्याकरण पुस्तक भी निर्धारित की गयी हैं।

संज्ञा, सर्वनाम, विशेषण, क्रिया (केवल व्यावहारिक पक्ष)

सैक्शन-डी

अनुवाद: शब्दावली (संलग्न), पत्रलेखन: पारिवारिक, शैक्षिक, प्रार्थनापत्र, निमंत्रण पत्र (केवल व्यावहारिक पक्ष)

अनुवाद संबंधी सामान्य शब्दावली

S.No.		
1.	Advertisement	विज्ञापन
2.	Academic	शैक्षणिक
3.	Attached	संलग्न
4.	Administration	प्रशासन
5.	Action	कार्यवाही
6.	Balance	संतुलन
7.	Acceptance	स्वीकृति
8.	Assurance	आश्वासन
9.	Bond	बंध पत्र / शपथ पत्र
10.	Bonafide	वास्तविक
11.	Board	मण्डल / परिषद्
12.	Capacity	क्षमता
13.	Confidential	गोपनीय

B.A. B.ED. (FOUR YEARS INTEGRATED DEGREE PROGRAMME)

14.	Correspondence	पत्र व्यवहार / पत्राचार
15.	Communication	संचार
16.	Corporation	निगम
17.	Commission	आयोग
18.	Census	जनगणना
19.	Consumer	उपभोक्ता
20.	Constitution	संविधान
21.	Casual Leave	आकस्मिक अवकाश
22.	Democracy	लोकतंत्र / प्रजातंत्र
23.	Document	दस्तावेज
24.	Enrollment	नामांकन
25.	Estimate	आकलन
26.	Faculty	विभाग / संकाय
27.	Forwarded	अग्रसारित
28.	Governor	राज्यपाल
29.	Honorary	अवेतनिक
30.	Homage	श्रद्धांजलि
31.	Honorable	माननीय
32.	Illegal	अवैध
33.	Incharge	प्रभारी
34.	Initiative	पहल
35.	Inauguration	उद्घाटन
36.	Increment	वेतनवृद्धि
37.	Inspection	निरीक्षण
38.	Interference	हस्तक्षेप
39.	Joint	संयुक्त
40.	Junior	कनिष्ठ
41.	Majority	बहुमत / बहुसंख्यक
42.	Minor	नाबालिग
43.	Member of Parliament	संसद सदस्य
44.	Neutral	तटस्थ
45.	Notification	अधिसूचना
46.	Original	मौलिक
47.	Option	विकल्प
48.	Provident Fund	भविष्य निधि
49.	Ratio	अनुपात
50.	Registration	पंजीयन
51.	Revision	पुनरीक्षण
52.	Superintendent	अधीक्षक
53.	Secretary	सचिव
54.	Training	प्रशिक्षण
55.	Transfer	स्थानांतरण
56.	Vacancy	रिक्त स्थान
57.	witness	साक्ष्य / गवाह
58.	Zonal	क्षेत्रीय
59.	Uniformity	एकरूपता
60.	Unavoidable	अपरिहार्य

SEMESTER-I**PAPER-IV, STREAM-1
PHILOSOPHY****ELEMENTARY PHILOSOPHY****Time: 3 Hours****Max. Marks: 100****Lectures to be delivered: 6 per week****Pass Marks 35%****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

1. An Introduction to Philosophy: Definition, Meaning, Nature, Scope and Importance.
2. Introduction to the Branches of Philosophy: Metaphysics, Epistemology, Aesthetics and Ethics.
3. Relation of Philosophy with Religion.

SECTION-B

1. Human Rights: Definition, Nature, Scope and Types.
2. Social Problems: Casteism and Gender Discrimination.
3. World Peace: Problems and Solution.

SECTION-C

1. Guru Nanak: Sangat, Pangat and Sarbat da Bhala.
2. Vivekanand: Humanism.
3. M.K. Gandhi: Ahimsa and Satyagrah.

SECTION-D

1. Culture: Definition and Components
2. Civilization: Definition and Components.
3. Culture and Civilization: Relation and Differences.

Recommended Readings:-**English Books**

1. Anand, Amaladass, *Introduction to Philosophy*, Satya Nilayam Publication, Chennai, 2001.
2. Chandra, U., *Human Rights*, Allahabad Law Agency, Allahabad, 2000.
3. Jacques, Martain, *An Introduction to Philosophy*, New York: Sheed & ward, London, 1962.
4. Lal, B.K., *Contemporary Indian Philosophy*, Motilal Banarsidas, Delhi, 1978.
5. Mackenzie, J.S., *Outlines of Social Philosophy*, Allen and Union, London, 1963.
6. Narvane, V.S., *Modern Indian Thought: A Philosophical Survey*, Asia, Bombay, 1967.
7. Robert and Beck, *Handbook of Social Philosophy*, 1969.
8. Teja Singh, *Sikhism; Its Ideals and Institutions*, Khalsa Brothers, Amritsar, 1970.
9. Titus, H.H., *Living Issues in Philosophy*, Eurasia, New Delhi, 1968.
10. Wingate, Alan, *Human Rights, Comment and Interpretation*, UNESCO, 1949.

Punjabi Books:-

1. ਸਹਿਰਾਈ, ਪਿਆਰਾ ਸਿੰਘ (ਸੰਪਾ.), *ਸਮਾਜਵਾਦ ਤੇ ਮਨੁੱਖੀ ਅਧਿਕਾਰ*, ਨਵਯੁੱਗ ਪਬਲਿਸ਼ਰਜ਼, ਦਿੱਲੀ।
2. ਖਲਿਆਬਿਚ.ਆਈ, *ਦਰਸ਼ਨ ਦੀ ਇਤਿਹਾਸ ਰੇਖਾ*, ਨਵਯੁੱਗ ਪਬਲਿਸ਼ਰਜ਼, ਦਿੱਲੀ।
3. ਗੁਰਜੀਤ ਸਿੰਘ, *ਸਭਿਆਚਾਰ ਦਾ ਫਲਸਫਾ*, ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ।
4. ਜੋਸ਼ੀ, ਜੀਤ ਸਿੰਘ, *ਸਭਿਆਚਾਰ : ਸਿਧਾਂਤ ਤੇ ਵਿਹਾਰ*, ਵਾਰਿਸ ਸ਼ਾਹ ਫਾਉਂਡੇਸ਼ਨ, ਅੰਮ੍ਰਿਤਸਰ।
5. ਵਜ਼ੀਰ ਸਿੰਘ, *ਫਲਸਫਾ ਤੇ ਸਿੱਖ ਫਲਸਫਾ*, ਮਦਾਨ ਪਬਲਿਸ਼ਰਜ਼, ਪਟਿਆਲਾ, 1980.

Hindi Books:-

1. ਗੌਤਮ, ਐਸ.ਪੀ. (ਡਾ.), *ਸਮਾਜ ਦਰਸ਼ਨ*, ਹਰਿਆਣਾ ਸਾਹਿਤ, ਅਕਾਦਮੀ, ਪੰਚਕੁਲਾ।
2. ਸਿਨਹਾ, ਹਿੰਮਤ ਸਿੰਘ (ਡਾ.), *ਸੰਸਕ੍ਰਿਤ ਦਰਸ਼ਨ*, ਹਰਿਆਣਾ ਸਾਹਿਤ ਅਕਾਦਮੀ, ਪੰਚਕੁਲਾ।

SEMESTER-I**PAPER-IV, STREAM-1
PSYCHOLOGY
BASIC PSYCHOLOGICAL PROCESSES-I****Time: 3 Hours****Pass Marks: 35% of the subject
(Theory and Practical Separately)****Max. Marks: 100****Theory Marks: 75****Practical Marks: 25****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

Nature: Psychology as a Science, Historical background of Psychology with brief Introduction to Schools (Structuralism, Functionalism, Psychoanalysis, Behaviourism, Gestalt and Humanistic)

Methods: Introspection, Observation, Experiment, Case Study, Interview and Questionnaire

SECTION-B

Testing and Assessment: Nature and Uses of Psychological Tests, Characteristics of Good Psychological Tests, Types of Psychological Tests (Verbal & Non-verbal Tests, Individual & Group Tests, Speed & Power Tests, Paper & Pencil and Performance Tests, Essay & Objective Type Tests), Ethical Issues in Psychological Testing

SECTION-C

Learning: Introduction to Learning, Nature and Characteristics of Learning, Types of Learning (Verbal and Non-verbal), Theories of Learning (Thorndike, Pavlov, Skinner and Kohler)

SECTION-D

Intelligence: Concept and Nature, Intelligence Theories (Spearman, Thurstone, Gardener and Sternberg), Concept of Emotional Intelligence, Nature and Nurture Issue in Intelligence

Statistics: Introduction to Parametric and Non-Parametric Statistics, Descriptive and Inferential Statistics, Frequency Distributions, Graphical representation of Data, Meaning and Characteristics of good Measure of Central Tendency, Measures of Central Tendency: Mean, Median, Mode with their Merits and Demerits

References:-

1. Benjamin, Jr. L.T., Hopkings, J.R. & Nation, J.R. (1987). *Psychology*. Mcmillan Publishing Company, New York.
2. Chaplin, J.R. & Kraiwic, T.S. (1985). *Systems and Theories of Psychology*. Holt, Rinehart and Winston, Inc., New York.
3. Crooks, R.L. & Strin, J. (1988). *Psychology; Sciences: Behaviour and Life*. Holt Rinehart and Winston, Inc., New York.
4. Morgan, G.T., King, P.A., Weisz, T.R. & Schopler, J. (1999). *Introduction to Psychology*. McGraw Hill Book Co., New York.
5. Baron, R.A. (1996). *Psychology*. New Delhi: Prentice Hall of India.
6. Carlson N.R. (2007). *Foundation of Physiological Psychology*. Pearson Education, New Delhi.
7. Aron (2007). *Statistics for Psychology*. Pearson Education, New Delhi.

SEMESTER-I**PAPER-IV, STREAM-1
PSYCHOLOGY****(PRACTICAL)****Marks: 25****Instructions for the Practical Examination:**

Students are supposed to perform five practicals out of 6 mentioned in the syllabus. Practical examination will be of 3 hours duration. External examiner will conduct the practical examination. The students will perform one practical in the exam carrying 25 marks. Evaluation of the practical would be done on the basis of write-up of file book (5 Marks), performance and viva-voce (20 Marks) relating to the practicals. In case students have not completed 5 practicals, the examiner will deduct marks at the rate of 5 for each left practical out of total evaluation of the student. No reappear will be allowed in the practical examination. Fail in the practical will be considered fail overall in the subject.

Five Practical have to be performed out of the following:

1. Serial Positioning effect in Verbal Learning
2. Verbal/ Non verbal Test of Intelligence
3. Performance Test of Intelligence
4. Maze Learning
5. Comparison of Free & Serial Learning
6. Emotional Intelligence

SEMESTER-I**PAPER-IV, STREAM-1
SOCIOLOGY****FUNDAMENTALS OF SOCIOLOGY-I****Time: 3 Hours****Max. Marks: 100****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

- a) **Sociology:** Meaning, Nature, Scope and Importance.
- b) **Sociology and Social Sciences:** Psychology, Economics, Political Science and History.

SECTION-B

- a) **Basic Concepts:** Society, Community, Institution and Association

SECTION-C

- a) **Social Groups:** Definition, Characteristics and Types– Primary & Secondary, In group and Out group, Reference Groups.

SECTION-D

- a) **Socialization:** Meaning, Processes, Agencies and Theories of self (C.H.Cooley, Sigmund Freud).

Recommended Readings:-

1. Ahuja, Ram. 1993, *Indian Social System*. Jaipur: Rawat Publications.
2. Abraham, M. Francis. 2006, *Contemporary Sociology*. New Delhi: Oxford University.
3. Bottomore, T.B.S. 1972, *Sociology*, Punjabi Translation by Parkash Singh Jammu, Publication Bureau, Punjabi University, Patiala.
4. Davis, Kingsley. 1971, *Human Society*, Punjabi Translation by Parkash Singh Jammu, Publication Bureau, Punjabi University, Patiala.
5. Gisbert, Pascual. 1969, *Fundamentals of Sociology*. Bombay: Orient Longmans.
6. Haralambos, Michael and Robin Heald. 2013, *Sociology: Themes and Perspectives*. New Delhi: Oxford University Press.
7. Jayaram, N. 1988, *Introductory Sociology*. Madras: Macmillan.
8. Johnson, H.M. 1995, *Sociology: A Systematic Introduction*. New Delhi: Allied Publishers.
9. Kapila, S. 1989, *A Text Book of Sociology, Part-I & II*. Jalandhar: New Academic House.
10. Kapila, S. 2001, *Fundamentals of Sociology*, Vol. I. Panchkula: Kapila Publishers.
11. Koenig, Samuel. *Sociology, An Introduction to the Science of Society*. Punjabi Translation by Baldev Singh, Publication Bureau, Punjabi University, Patiala.
12. Kaur, Swinderjit. 2014, *General Samaj Vigyan*. Jalandhar: New Academic Publishing.
13. Macionis, John.J and Ken Plumer. 2014, *Sociology: A Global Introduction*. London: Pearson.

SEMESTER-I**PAPER-V & VI, STREAM-2****MATHEMATICS****PAPER-I: ALGEBRA****Time: 3 Hours****Marks: 50****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

Linear independence of row and column vectors. Row rank, Column rank of a matrix, Equivalence of column and row ranks, Nullity of matrix, Applications of matrices to a system of linear (both homogeneous and non-homogeneous) equations. Theorems on consistency of a system of linear equations.

SECTION-B

Eigen values, Eigen vectors, minimal and the characteristic equation of a matrix. Cayley Hamilton theorem and its use in finding inverse of a matrix. Quadratic Forms, quadratic form as a product of matrices. The set of quadratic forms over a field.

SECTION-C

Congruence of quadratic forms and matrices. Congruent transformations of matrices. Elementary congruent transformations. Congruent reduction of a symmetric matrix. Matrix Congruence of skew-symmetric matrices. Reduction in the real field. Classification of real quadratic forms in variables. Definite, semi-definite and indefinite real quadratic forms. Characteristic properties of definite, semi-definite and indefinite forms.

SECTION-D

Relations between the roots and coefficients of general polynomial equation in one variable. Transformation of equations and symmetric function of roots, Descarte's rule of signs, Newton's Method of divisors, Solution of cubic equations by Cardon method, Solution of biquadratic equations by Descarte's and Ferrari's Methods.

Books Recommended:-

1. K.B. Dutta: Matrix and Linear Algebra, Prentice Hall of India Pvt. Ltd., New Delhi (2002).
2. H.S. Hall and S.R. Knight: Higher Algebra, H.M. Publications, 1994.
3. Chandrika Parsad: Text book on Algebra and Theory of Equations, Pothishala Pvt. Ltd., Allahabad.
4. S.L. Loney: Plane Trigonometry Part-II, Macmillan and Company, London.
5. Shanti Narayan and P.K. Mittal: Text Book of Matrices.

SEMESTER-I**PAPER-V & VI, STREAM-2
MATHEMATICS****PAPER-II: CALCULUS AND TRIGONOMETRY****Time: 3 Hours****Marks: 50****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

Real number system and its properties, lub, glb of sets of real numbers, limit of a function, Basic properties of limits, Continuous functions and classification of discontinuities, Uniform continuities.

SECTION-B

Differentiation of hyperbolic functions, Successive differentiation, Leibnitz theorem, Taylor's and Maclaurin's theorem with various forms of remainders, Indeterminate forms.

SECTION-C

De-Moivre's Theorem and its applications, circular and hyperbolic functions and their inverses.

SECTION-D

Exponential and Logarithmic function of a complex numbers, Expansion of trigonometric functions, Gregory's series, Summation of series.

Books Recommended:-

1. N. Piskunov: Differential and Integral Calculus, Peace Publishers, Moscow.
2. Gorakh Prasad: Differential Calculus, Pothishala Pvt. Ltd., Allahabad.
3. Erwin Kreyszig: Advanced Engineering Mathematics, John Wiley and Sons, 1999.

SEMESTER-I**PAPER-V & VI, STREAM-2
COMPUTER SCIENCE****COMPUTER FUNDAMENTAL & PC SOFTWARE
(THEORY)****Time: 3 Hours
4 Hours/week****Max. Marks: 100
Theory Marks: 75
Practical Marks: 25****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

1. Introduction to computer and its uses: milestones in hardware and software. Batch oriented/Online/real time application.
2. Computer as a system: basic concepts: stored programs, functional units and their inter-relation: communication with the computer.
3. Data storage devices and media: primary storage: storage addressed, and capacity, type of memory: secondary storage; magnetic tape – data representation and R/W: magnetic disc, fixed & removable, data representation and R/W, floppy disc drives, Winchester disc drive, conventional disc drives, Data organization, Compact Disc.

SECTION-B

1. Input/Output devices: Key-tape/diskette devices, light pen mouse and joystick, source data automation (MICR, OMR, and OCR), screen assisted data entry; portable/hand held terminals for data collection, vision input system.
2. Printed output: Serial, line, page, printers; plotters, visual output; voice response units.

SECTION-C

Introduction to Windows based operating system and Desktop icons

SECTION-D**MS-Office:**

Introduction to Word, Introduction to Parts of Word Window (Title Bar, Menu Bar, Tool Bar, The Ruler, Status Area), Page Setup, Creating New Documents, Saving Documents, Opening an Existing documents, insert a second document into an open document, Editing and formatting in document, Headers and Footers, Spell Checking, Printing document, Creating a Table Using the Table Menu and table formatting, Borders and Shading, Templates and Wizards, Mail Merge

MS Power Point:

Introduction to MS Power point, Power point elements, Templates, Wizards, Views, Exploring Power Point Menu, Working with Dialog Boxes, Adding Text, Adding Title, Moving Text Area, Resizing Text Boxes, Adding Art, Starting a New Slide, Starting Slide Show, Saving presentation; Printing Slides, Views (View slide sorter view, notes view, outlines view) Formatting and enhancing text formatting, Creating Graphs (Displaying slide show and adding multi-media)

SEMESTER-I**PAPER-V & VI, STREAM-2
COMPUTER SCIENCE****(PRACTICAL)****Marks: 25****2 Hours/week****Practical based on Computer Fundamental & PC Software**

Windows, MS Word, Power Point,

References:

1. R.K. Taxali: Introduction to Software Packages, GalgotiaPublicaions.
2. MS-Office Compiled by SYBIX
3. MS-Office BPB Publications.
4. Introduction to Computer by P.K. Sinha
5. Windows Based Computer Courses by Gurvinder Singh & Rachpal Singh, Kalyani Publishers.

SEMESTER-I**PAPER-V & VI, STREAM-2
ECONOMICS****MICROECONOMICS****Time: 3 Hours****Max. Marks: 100****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

Introductory: Definition of Economics, Adam Smith, Marshall, Robbins, Nature and Scope of Microeconomics. Basic Economic Problems.

Demand Function; Supply Function, Price Determination, Slope and Elasticity (Concepts), Elasticity of Demand – Price, Income and Cross. Measurement of price elasticity of demand. Utility Analysis, Indifference Curve Analysis and Revealed Preference Analysis (Meaning and Equilibrium).

SECTION-B

Theory of Production and Costs: Concept of Production Function. Laws of Returns to Scale and Law of Variable Proportions.

Cost: Traditional Theory, Concepts and Costs curves in the short and in the long run. Revenue Curves and their relationship with elasticity of demand.

SECTION-C

Market forms: Perfect Competition; Assumptions, Price and output determination of firm and Industry in Short run and Long run; Monopoly: Assumptions, Equilibrium. Monopolistic Competition: Assumptions.

SECTION-D

Factor Pricing: Marginal Productivity Theory and Modern Theory of Distribution.

Rent: Concept; Ricardian Theory and Modern Theory of Rent.

Interest: Concept of interest; classical theory, loanable funds theory.

Profit: Concept of profit; Risk and uncertainty theories.

Recommended Texts:

1. R.G. Lipsey: Introduction to positive economics, EL BS, London, 1969.
2. Stonier & Hague: A Text book of Economics Theory, 9th ed., ELBS, London, 1973.
3. Paul Samuelson: Economics, Mcgraw Hill, Kogakushad, Tokyo, 1973.
4. N.C. Ray: Microeconomic Theory, Macmillan, Delhi, 1975.
5. D. Salvatore: Microeconomics.
6. Koutsoyiannis: Modern microeconomics.

SEMESTER-I

PAPER-V & VI, STREAM-3
HISTORY

HISTORY OF INDIA UPTO C. 1000

Time: 3 Hours

Max. Marks: 100
Theory-6 periods/Week**Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

Section-A

1. **Sources:** Meaning of the term 'ancient', Literary sources Vedic literature, Epics and Puranans, Buddhist and Jain texts, Sangam literature; Accounts of Indians and foreigners; Archeological Sources; Coins, Inscriptions and Monuments.
2. **The Indus Civilization:** Origin; Harappa and Mohenjodaro; Political organization; Town-planning and architecture; Agriculture, technology; Trade contacts with the outside world; Religion; Script, Seals and Figurines, Causes of disintegration.

Section-B

3. **The Indo Aryans:** Original home; Geographical area known to Vedic texts; Social Institutions: Family, Varna and the Caste system, Religious ideas and rituals; Economy; Political Organization—Changes in the later Vedic period; Emergence of the republics and kingdoms; Growth of towns.
4. **Jainism and Buddhism:** Social and political conditions; Doctrines of Jainism and sectarian development; Teachings of Gautam Buddha; The Sangha organization; Spread of Buddhism; its decline, Legacy of Buddhism and Jainism.

Section-C

5. **The Age of the Mauryas:** Establishment of the Mauryan Empire; Expansion of the empire; the Kalinga War; Polity and administration; Contacts with neighbouring states; Ashoka's Dhamma; Decline of the Mauryan empire.
6. **The Kushanas:** Kanishka and his successors; Gandhara Art; Literature. **The Gupta Age:** Establishment of the Gupta Empire; its expansion under Samundragupta and Chandragupta-II; Administration; Revenue system; Trade and Commerce; Art and architecture; The Huna invasions and the decline of the Gupta Empire.

Section-D

7. **The Age of the Vardhanas:** Establishment of Vardhana kingdom; Harsha's campaigns and political relations; Sources of revenue; Patronage of religion, Literature and education.
8. **The Cholas:** Establishment of the Chola power; Extent of the Chola empire; Administration; Economy; Trade, Art and Architecture religion and Philosophy. **The Rajputs:** Origins; Polity and administration; Social and Religious life; Literature and art.

Suggested Reading

1. Basham, A.L., *Wonder that was India*, Fontana, London, 1977.
2. Jha, D.N., *Early India: Concise History of India*, Manohar Publication, 2010
3. Sharma, R.S., *India's Ancient Past*, Oxford University Press, New Delhi, 2005
4. Thapar, Romila, *Early India: From Origins to AD 1300*, Penguin publication, New Delhi, 2003.

SEMESTER-I**PAPER-V & VI, STREAM-3
GEOGRAPHY****PHYSICAL GEOGRAPHY-I: GEOMORPHOLOGY
(THEORY)****Time: 3 Hours****Max. Marks: 100****Theory Marks: 70****Practical Marks: 30****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

Note: Stencil/outline maps and coloured pencils are allowed

Objective: The objective of this paper is to introduce the basic concepts in the physical geography, essentially geomorphology to the students of geography in a brief but adequate manner.

SECTION-A

Geography: Definition, place of physical geography within the discipline of geography, division of physical geography—geomorphology, climatology, oceanography. Theories of the Origin of the Earth: Kant, Laplace and Jeans & Jeffreys.

Interior of the Earth: Constitution, structure and composition, continental drift(with special reference to Wegener's theory and Plate Tectonics).

SECTION-B

Movements of the Earth: Orogenic, epeirogenic movements

Landforms resulting from forces of compression and tension: folding and faulting

Earthquakes and Volcanoes (causes, types and distribution)

SECTION-C

Rocks: Their origin, classification and characteristics.

Major Landforms: Mountains, plateaus and plains in the world.

Geomorphic Agents: Geomorphic processes (weathering and erosion).

SECTION-D

Geomorphological Landscapes: Fluvial, glacial, aeolian, coastal, Karst.

Applied Geomorphology: Applications to transport and landuse.

Books Recommended:-

1. Chawla, I.N.: *Bhautik Bhugol (in Punjabi)*, Bharat Prakashan, Jalandhar.
2. Dayal, P.: *A Text Book of Geomorphology*, **Rajesh Publications New Delhi, 2007.**
3. Dury, G.H.: *The Face of the Earth Penguin*, Middlesex, England, **1977.**
4. Gass, I.G.: *Understanding the Earth*, The Artemrs Press, Sussex, 1973.
5. Holmes Arthur: *Principles of Physical Geology*, Thomas Nelson & Sons, Ltd., New York, Latest Edition, **1993.**
6. Kale, V. and Gupta A.: *Elements of Geomorphology*, OxfordUniversity Press, Calcutta, 2001.
7. Kaur Dhian: *The Earth*, Edited by R.C. Chandna, Kalyani Publishers, Ludhiana, Delhi, 2000.
8. Nizamuddin: *An Introduction to Physical Geography*, Concept, New Delhi, **2002.**
9. Mamoria, C.P. and Niati, J.L.: *Bhautik Bhugol Ke Tatwa (in Hindi)* Agra, 1976.
10. Monkhouse, F.J.: *Principles of Physical Geography*, Orient Longman, New Delhi, LatestEdition, **1975.**
11. R.N. Tikha: *Physical Geography*, New Academic Publishing Co., Jalandhar.
12. Singh, Pritam & Bhatia S., *Bhautik Bhugol De Adhaar*, PunjabiUniversity Publication, Patiala.
13. Singh, Savinder: *Physical Geography*, **Pravalika Publications, Allahabad, 2015.**
14. Sparks, B.W.: *Geomorphology*, Longman, London, 1986.
15. Strahler, A.N. & Strahler A.H.: *Modern Physical Geography*, John Wiley, New York, 1992.
16. Thornbury, W.D.: *Principles of Geomorphology*, Second Edition, Wiley Eastern Ltd., New Delhi, 1993.
17. Singh Malkiat: *Principles of Physical Geography*, Rasmeet Parkashan, Jalandhar, **2005, Reprint 2015.**

SEMESTER-I

PAPER-V & VI, STREAM-3
GEOGRAPHYCARTOGRAPHY-I
(PRACTICAL)

Time: 3 Hours

Max. Marks: 30
 Written Paper of 3 Hours: 15 Marks
 Practical Record (File): 08 Marks
 Viva: 07 Marks

Objective:

Geography is an amalgam of physical as well as social sciences and as such it is necessary for the students to go through laboratory exercises, particularly to show directions and bearings and different methods of representing relief. The concept of scale is to be understood in the initial stage and also different methods of representing relief.

SECTION-A

Maps and Scale: History of Cartography and types of maps, Scales: types of scales, methods of construction of graphic scales—plain scales, diagonal scales and comparative scales—different units, time scales.

SECTION-B

Representation of Relief: Spot heights, Trigonometrical stations, Bench Marks, form Lines, Contours, Hachures, Hill-shading and Layer tints.

Note:

1. A compulsory question containing 10 short answer type questions will be set covering the whole syllabus. The students will attempt 6 short answer type questions in about 25–30 words each. Each short answer type question will carry ½ mark (Total 3 marks).
2. The whole syllabus will be divided into 2 sections. Eight questions will be set out of the whole syllabus, four from each section. The students will be required to attempt two questions from each section. Each question will carry 3 marks. These will be in addition to the compulsory question at serial number 1. (Total 12 marks)
3. Evaluation of Practical record will be done at the time of viva-voce examination. A minimum of 12 sheets are to be prepared by the students in each semester.
4. In case the candidate has applied for the improvement, he/she should be required to make a fresh practical note book.
5. For practical classes, the number of students in one group shall not exceed fifteen.

Recommended Books:-**Essential Readings:-**

1. Khullar, D.R.: *Essentials of Practical Geography*, New Academic Publishing Co., Mai Hiran Gate, Jalandhar, **2016**.
2. Singh, Gopal: *Mapwork and Practical Geography*, Vikas Publishing House, Pvt. Ltd., New Delhi, 1995.
3. Singh L.R. & Singh, Raghunandan: *Mapwork and Practical Geography*, Central Book Depot, Allahabad, 1993.
4. Phyllis Dink: *Mapwork*, Atma Ram & Sons, **1991**.

Further Readings:-

1. Mishra, R.P. & Ramesh, A.: *Fundamental of Cartography*, Concept Publishing Co., New Delhi, 1989.
2. Monkhouse, F.J. & Wilkinson, H.R.: *Maps and Diagrams*, Methuen & Co., London, Third Edition, 1976.
3. Robinson, A.H. & Randall, D. Sale: *Elements of Cartography*, John Wiley & Sons, New York, (Sixth Edition), 1995.

SEMESTER-I

PAPER-V & VI, STREAM-3
POLITICAL SCIENCE
PRINCIPLES OF POLITICAL SCIENCE

Time: 3 Hours

Max. Marks: 100

Instructions for the Paper Setters:-

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

1. Political Science: Meaning, Nature and Scope, Traditional & Modern View.
2. Relationship of Political Science with Economics, History, Sociology and Psychology.

SECTION-B

1. State: Definition, Elements and its distinction from Government and Society.
2. Theories of the Origin of State: Social Contract, Historical/Evolutionary and Marxian Theory.

SECTION-C

1. State: Liberal, Marxian and Gandhian Views of State.
2. Welfare State: Concept and Functions of Welfare State

SECTION-D

1. Sovereignty: Definition, Attributes and Types of Sovereignty.
2. Theories of Sovereignty: Monistic and Pluralistic.
3. Electorates and Electoral Systems.

Recommended Books:-

1. J. C. Johari, *Principles of Political Science*, Sterling Publishers, New Delhi.
2. S.P. Verma, *Political Theory*, Geetanjali Publishing House, New Delhi.
3. A.C. Kapur, *Principles of Political Science*, S. Chand & Company, New Delhi.
4. E. Asirvatham, *Political Theory*, S. Chand & Company, New Delhi.
5. M.P. Jain, *Political Theory*, Authors Guild Publication, Delhi, (Punjabi & Hindi).
6. David Easton, *The Political System*, Scientific Book Agency, Calcutta.
7. D.C. Bhattacharya, *Political Theory*, Vijay Publishing House, Calcutta.
8. O.P. Gauba, *An Introduction to Political Theory*, Macmillan Indian Ltd., New Delhi.
9. Satish Kumar Sharma, *Adhunik Rajnitik Vishleshan*, Publication Bureau, Punjabi University, Patiala.
10. Andrew Heywood, *An Introduction to Political Theory*, New Delhi, Palgrave Publications, 2004.
11. Aeon J. Skoble and Tibor R. Machan, *Political Philosophy*, 1st Edition, New Delhi, Pearson, 2007.
12. John Hoffman & Paul Graham, *Introduction to Political Theory*, Pearson, 2007.
13. Catriona Mckinnon, *Issues in Political Theory*, Oxford, 2009.
14. R.C Varmani, *Understanding Political Theory: Concepts and Issues*, Gitanjali, 2011.
15. Andrew Heywood, *Key Concepts in Politics*, Palgrave, 2011.
16. -----, *Politics*, Palgrave, 2013.
17. E Asirvatham & K.K Mishra, *Political Theory*, S. Chand, 2012.
18. N.D Arora, *Introduction to Political Theory*, Har-Anand, 2012
19. R.Bhargava, *Political Theory : An introduction*, Pearson, 2013
20. Anthony H.Birchi, *The concepts and Theories of Modern Democracy*, Routledge, 2013
21. Hoveyta Abbas & Ranajay Kumar, *Political Theory*, Pearson, 2012
22. S.P Verma, *Modern Political Theory*, Vikas, 2005.
23. David Heft, *Political Theory and the Modern State*, Worldview, 1998

SEMESTER-I

PAPER-V & VI, STREAM-3
ECONOMICS

MICRO ECONOMICS

Time: 3 Hours

Max. Marks: 100

Instructions for the Paper Setters:-

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

Introductory: Definition of Economics, Adam Smith, Marshall, Robbins, Nature and Scope of Microeconomics. Basic Economic Problems.

Demand Function; Supply Function, Price Determination, Slope and Elasticity (Concepts), Elasticity of Demand – Price, Income and Cross. Measurement of price elasticity of demand. Utility Analysis, Indifference Curve Analysis and Revealed Preference Analysis (Meaning and Equilibrium).

SECTION-B

Theory of Production and Costs: Concept of Production Function. Laws of Returns to Scale and Law of Variable Proportions.

Cost: Traditional Theory, Concepts and Costs curves in the short and in the long run. Revenue Curves and their relationship with elasticity of demand.

SECTION-C

Market forms: Perfect Competition; Assumptions, Price and output determination of firm and Industry in Short run and Long run; Monopoly: Assumptions, Equilibrium. Monopolistic Competition: Assumptions.

SECTION-D

Factor Pricing: Marginal Productivity Theory and Modern Theory of Distribution.

Rent: Concept; Ricardian Theory and Modern Theory of Rent.

Interest: Concept of interest; classical theory, loanable funds theory.

Profit: Concept of profit; Risk and uncertainty theories.

Recommended Texts:-

1. R.G. Lipsey: Introduction to positive economics, EL BS, London, 1969.
2. Stonier & Hague: A Text book of Economics Theory, 9th ed., ELBS, London, 1973.
3. Paul Samuelson: Economics, Mcgraw Hill, Kogakushad, Tokyo, 1973.
4. N.C. Ray: Microeconomic Theory, Macmillan, Delhi, 1975.
5. D. Salvatore: Microeconomics.
6. Koutsoyiannis: Modern microeconomics.

SEMESTER-I**PAPER-V & VI, STREAM-4
PHILOSOPHY
ELEMENTARY PHILOSOPHY****Time: 3 Hours****Max. Marks: 100****Lectures to be delivered: 6 per week****Pass Marks 35%****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

1. An Introduction to Philosophy: Definition, Meaning, Nature, Scope and Importance.
2. Introduction to the Branches of Philosophy: Metaphysics, Epistemology, Aesthetics and Ethics.
3. Relation of Philosophy with Religion.

SECTION-B

1. Human Rights: Definition, Nature, Scope and Types.
2. Social Problems: Casteism and Gender Discrimination.
3. World Peace: Problems and Solution.

SECTION-C

1. Guru Nanak: Sangat, Pangat and Sarbat da Bhala.
2. Vivekanand: Humanism.
3. M.K. Gandhi: Ahimsa and Satyagrah.

SECTION-D

1. Culture: Definition and Components
2. Civilization: Definition and Components.
3. Culture and Civilization: Relation and Differences.

Recommended Readings:-**English Books:-**

1. Anand, Amaladass, *Introduction to Philosophy*, Satya Nilayam Publication, Chennai, 2001.
2. Chandra, U., *Human Rights*, Allahabad Law Agency, Allahabad, 2000.
3. Jacques, Martain, *An Introduction to Philosophy*, New York: Sheed & ward, London, 1962.
4. Lal, B.K., *Contemporary Indian Philosophy*, Motilal Banarsidas, Delhi, 1978.
5. Mackenzie, J.S., *Outlines of Social Philosophy*, Allen and Union, London, 1963.
6. Narvane, V.S., *Modern Indian Thought: A Philosophical Survey*, Asia, Bombay, 1967.
7. Robert and Beck, *Handbook of Social Philosophy*, 1969.
8. Teja Singh, *Sikhism; Its Ideals and Institutions*, Khalsa Brothers, Amritsar, 1970.
9. Titus, H.H., *Living Issues in Philosophy*, Eurasia, New Delhi, 1968.
10. Wingate, Alan, *Human Rights, Comment and Interpretation*, UNESCO, 1949.

Punjabi Books:-

1. ਸਹਿਰਾਈ, ਪਿਆਰਾ ਸਿੰਘ (ਸੰਪਾ.), *ਸਮਾਜਵਾਦ ਤੇ ਮਨੁੱਖੀ ਅਧਿਕਾਰ*, ਨਵਜੁੱਗ ਪਬਲਿਸ਼ਰ, ਦਿੱਲੀ।
2. ਖਲਿਆਬਿਚ.ਆਈ, *ਦਰੁਨ ਦੀ ਇਤਿਹਾਸ ਰੇਖਾ*, ਨਵਜੁੱਗ ਪਬਲਿਸ਼ਰ, ਦਿੱਲੀ।
3. ਗੁਰਜੀਤ ਸਿੰਘ, *ਸਭਿਆਚਾਰ ਦਾ ਫਲਸਫਾ*, ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ।
4. ਜ਼ੀ, ਜੀਤ ਸਿੰਘ, *ਸਭਿਆਚਾਰ : ਸਿਧਾਂਤ ਤੇ ਵਿਹਾਰ*, ਵਾਰਿਸ ਾਹ ਫਾਉਂਡੇਨ, ਅੰਮ੍ਰਿਤਸਰ।
5. ਵੀਰ ਸਿੰਘ, *ਫਲਸਫਾ ਤੇ ਸਿੱਖ ਫਲਸਫਾ*, ਮਦਾਨ ਪਬਲਿਸ਼ਰ, ਪਟਿਆਲਾ, 1980.

Hindi Books:-

1. ਗੋਤਮ, ਐਸ.ਪੀ. (ਡਾ.), *ਸਮਾਜ ਦਰੁਨ*, ਹਰਿਆਣਾ ਸਾਹਿਤ, ਅਕਾਦਮੀ, ਪੰਚਕੁਲਾ।
2. ਸਿਨਹਾ, ਹਿੰਮਤ ਸਿੰਘ (ਡਾ.), *ਸੰਸਕ੍ਰਿਤ ਦਰੁਨ*, ਹਰਿਆਣਾ ਸਾਹਿਤ ਅਕਾਦਮੀ, ਪੰਚਕੁਲਾ।

SEMESTER-I

PAPER-V & VI, STREAM-4
PSYCHOLOGY
BASIC PSYCHOLOGICAL PROCESSES-I

Time: 3 Hours
Pass Marks: 35% of the subject
(Theory and Practical Separately)

Max. Marks: 100
Theory Marks: 75
Practical Marks: 25

Instructions for the Paper Setters:-

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

Nature: Psychology as a Science, Historical background of Psychology with brief Introduction to Schools (Structuralism, Functionalism, Psychoanalysis, Behaviourism, Gestalt and Humanistic)

Methods: Introspection, Observation, Experiment, Case Study, Interview and Questionnaire

SECTION-B

Testing and Assessment: Nature and Uses of Psychological Tests, Characteristics of Good Psychological Tests, Types of Psychological Tests (Verbal & Non-verbal Tests, Individual & Group Tests, Speed & Power Tests, Paper & Pencil and Performance Tests, Essay & Objective Type Tests), Ethical Issues in Psychological Testing

SECTION-C

Learning: Introduction to Learning, Nature and Characteristics of Learning, Types of Learning (Verbal and Non-verbal), Theories of Learning (Thorndike, Pavlov, Skinner and Kohler)

SECTION-D

Intelligence: Concept and Nature, Intelligence Theories (Spearman, Thurstone, Gardener and Sternberg), Concept of Emotional Intelligence, Nature and Nurture Issue in Intelligence

Statistics: Introduction to Parametric and Non-Parametric Statistics, Descriptive and Inferential Statistics, Frequency Distributions, Graphical representation of Data, Meaning and Characteristics of good Measure of Central Tendency, Measures of Central Tendency: Mean, Median, Mode with their Merits and Demerits

References:-

1. Benjamin, Jr. L.T., Hopkins, J.R. & Nation, J.R. (1987). *Psychology*. Mcmillan Publishing Company, New York.
2. Chaplin, J.R. & Kraiwic, T.S. (1985). *Systems and Theories of Psychology*. Holt, Rinehart and Winston, Inc., New York.
3. Crooks, R.L. & Strin, J. (1988). *Psychology; Sciences: Behaviour and Life*. Holt Rinehart and Winston, Inc., New York.
4. Morgan, G.T., King, P.A., Weisz, T.R. & Schopler, J. (1999). *Introduction to Psychology*. McGraw Hill Book Co., New York.
5. Baron, R.A. (1996). *Psychology*. New Delhi: Prentice Hall of India.
6. Carlson N.R. (2007). *Foundation of Physiological Psychology*. Pearson Education, New Delhi.
7. Aron (2007). *Statistics for Psychology*. Pearson Education, New Delhi.

SEMESTER-I**PAPER-V & VI, STREAM-4
PSYCHOLOGY****(PRACTICAL)****Marks: 25****Instructions for the Practical Examination:**

Students are supposed to perform five practicals out of 6 mentioned in the syllabus. Practical examination will be of 3 hours duration. External examiner will conduct the practical examination. The students will perform one practical in the exam carrying 25 marks. Evaluation of the practical would be done on the basis of write-up of file book (5 Marks), performance and viva-voce (20 Marks) relating to the practicals. In case students have not completed 5 practicals, the examiner will deduct marks at the rate of 5 for each left practical out of total evaluation of the student. No reappear will be allowed in the practical examination. Fail in the practical will be considered fail overall in the subject.

Five Practical have to be performed out of the following:

1. Serial Positioning effect in Verbal Learning
2. Verbal/ Non verbal Test of Intelligence
3. Performance Test of Intelligence
4. Maze Learning
5. Comparison of Free & Serial Learning
6. Emotional Intelligence

SEMESTER-I**PAPER-V & VI, STREAM-4
SOCIOLOGY
FUNDAMENTALS OF SOCIOLOGY-I****Time: 3 Hours****Max. Marks: 100****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

- a) **Sociology:** Meaning, Nature, Scope and Importance.
- b) **Sociology and Social Sciences:** Psychology, Economics, Political Science and History.

SECTION-B

- a) **Basic Concepts:** Society, Community, Institution and Association

SECTION-C

- a) **Social Groups:** Definition, Characteristics and Types- Primary & Secondary, In group and Out group, Reference Groups.

SECTION-D

- a) **Socialization:** Meaning, Processes, Agencies and Theories of self (C.H.Cooley, Sigmund Freud).

Recommended Readings:-

1. Ahuja, Ram. 1993, *Indian Social System*. Jaipur: Rawat Publications.
2. Abraham, M. Francis. 2006, *Contemporary Sociology*. New Delhi: Oxford University.
3. Bottomore, T.B.S. 1972, *Sociology*, Punjabi Translation by Parkash Singh Jammu, Publication Bureau, Punjabi University, Patiala.
4. Davis, Kingsley. 1971, *Human Society*, Punjabi Translation by Parkash Singh Jammu, Publication Bureau, Punjabi University, Patiala.
5. Gisbert, Pascual. 1969, *Fundamentals of Sociology*. Bombay: Orient Longmans.
6. Haralambos, Michael and Robin Heald. 2013, *Sociology: Themes and Perspectives*. New Delhi: Oxford University Press.
7. Jayaram, N. 1988, *Introductory Sociology*. Madras: Macmillan.
8. Johnson, H.M. 1995, *Sociology: A Systematic Introduction*. New Delhi: Allied Publishers.
9. Kapila, S. 1989, *A Text Book of Sociology, Part-I & II*. Jalandhar: New Academic House.
10. Kapila, S. 2001, *Fundamentals of Sociology*, Vol. I. Panchkula: Kapila Publishers.
11. Koenig, Samuel. *Sociology, An Introduction to the Science of Society*. Punjabi Translation by Baldev Singh, Publication Bureau, Punjabi University, Patiala.
12. Kaur, Swinderjit. 2014, *General Samaj Vigyan*. Jalandhar: New Academic Publishing.
13. Macionis, John.J and Ken Plumer. 2014, *Sociology: A Global Introduction*. London: Pearson.

SEMESTER-I
EPC I
LIFE SKILLS EDUCATION

Total Marks: 50
Internal marks: 25
External marks: 25

Course Objectives:

After the completion of the course, the student teacher will be able to:

- Understand the concept and need of life skills in life.
- Correlate life skills with Success in life.
- Develop the skill of creative thinking, decision making and problem solving ability.
- Manage stress using various Stress coping strategies.

SECTION-A**INTRODUCTION TO LIFE SKILLS**

- a) Life Skills – concept, need and significance
- b) The Four Pillars of Education (analyse various life skills and social skills with respect to Four Pillars of Education- review them in the context of success in life and prepare a review report)
- c) Relationship between Life Skills and Success in Life (Listen to various motivational speeches by various motivational speakers- review atleast three speeches with respect to success in life and prepare a review report).

SECTION-B**LIFE SKILLS IN EDUCATION**

- a) Skill of creative thinking (For skill of creative thinking; Brain storming session on somer national/ international problems like Indo-Pak relations, terrorism, environment degradation etc. will be conducted along with elaboration of steps of creative problem solving used by the teachers to orient the students and provoke them for creative expressions- a reflective report to be prepared).
- b) Skill of decision making (for skill of decision making; students will be doing group discussions and debates on current issues, situation analysis will be done to develop decision making skills- atleast three situation analysis will be carried out for report purposes).
- c) Skill of Stress management (workshop on stress management like Yoga, Art of living, mediation etc. will be conducted- leading to writing of a reflective report)

Evaluation scheme**a) Internal****Attendance****05 Marks****Assignments on the following****20 Marks**

- Prepare a chart showing various life skills. their need and significance.
- Collection of atleast five Anecdotes and 15 quotations with their analysis with respect to life skills.
- Visit to Deaf and Dumb school/ School for blindand Voluntary service in pingalwara or orphanage (for total 6 hours) and write an experiential report

SEMESTER-I**b) External****25 Marks**

1. Evaluation on the basis of report.
2. Evaluation of PPT Presentation on the need and significance of life skills and viva will be done by the external.

Note:-

- For internal evaluation a committee of three teachers (concerned teacher, HOD and a senior faculty nominated by the principal) will be constituted at the institution level and coordinated by the principal of the concerned college.
- The committee will assess the performance of the students and evaluate the records. The award list will be forwarded to the university by the principal of the institution.
- The record in the form of files, CD, pendrive be retained for at least three years in the institution.
- In case of any aberration or any complaint the university / external agency is authorized to review the internal awards.

References:-

- Dakar Framework for Action, (2000). Education for All: Meeting our Collective Commitments, Dakar, Senegal.
- Hariharan, M., & Rath, R. (2008). *Coping with Life Stress: The Indian Experience*. New Delhi: Sage.
- Life Skills Resource Manual, Schools Total Health Program, (2006). Health Education and Promotion International Inc., Chennai.
- Kumar, J., & Keval., (2008). *Mass Communication in India*, JAICO Publication India Pvt. Ltd.
- Morgan and King, (1993). *Introduction to Psychology*. New Delhi: Tata McGraw-Hill Publishing Company Ltd.
- NCERT (2005). Adolescence Education in Schools- Life skills Development General Framework; National Population Education Project, Department Of Education in Social Science and Humanities, New Delhi, India.
- Rao, P.L. (2008). *Enriching Human Capital through Training and Development*. Delhi: Excel Books.
- Singh, M. (2003). Understanding Life Skills, Background paper prepared for Education for All: The Leap to Equality
- UNESCO and Indian National Commission for Co-operation with UNESCO (2001). Life Skills in Non-formal Education: A Review.
- YUVA School Life Skills Programme (2008). *Handbook for Teachers*, Vol. I – IV, Department of Education and State Council of Educational Research and Training, Delhi.

Web Sites:-

- UNESCO - <http://www.unesco.org/>
- UNFPA - <http://www.unfpa.org/>
- UNICEF - <http://www.unicef.org/>
- United Nations - <http://www.un.org/>
- WHO - <http://www.who.int/en/>
- India Portal - www.indiaportal.gov.in

SEMESTER-I
PAPER-VII: DRUG ABUSE: PROBLEM, MANAGEMENT AND PREVENTION
(COMPULSORY PAPER)

PROBLEM OF DRUG ABUSE

Time: 3 Hours

Max. Marks: 50

Instructions for the Paper Setters:-

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

Meaning of Drug Abuse:

Meaning, Nature and Extent of Drug Abuse in India and Punjab.

SECTION-B

Consequences of Drug Abuse for:

Individual:	Education, Employment, Income.
Family	: Violence.
Society	: Crime.
Nation	: Law and Order problem.

SECTION-C

Management of Drug Abuse:

Medical Management: Medication for treatment and to reduce withdrawal effects.

SECTION-D

Psychiatric Management: Counselling, Behavioural and Cognitive therapy.

Social Management: Family, Group therapy and Environmental Intervention.

References:-

1. Ahuja, Ram (2003), *Social Problems in India*, Rawat Publication, Jaipur.
2. Extent, Pattern and Trend of Drug Use in India, Ministry of Social Justice and Empowerment, Government of India, 2004.
3. Inciardi, J.A. 1981. *The Drug Crime Connection*. Beverly Hills: Sage Publications.
4. Kapoor. T. (1985) *Drug epidemic among Indian Youth*, New Delhi: Mittal Pub.
5. Kessel, Neil and Henry Walton. 1982, *Alcoholism. Harmond Worth*: Penguin Books.
6. Modi, Ishwar and Modi, Shalini (1997) *Drugs: Addiction and Prevention*, Jaipur: Rawat Publication.

7. National Household Survey of Alcohol and Drug abuse. (2003) New Delhi, Clinical Epidemiological Unit, All India Institute of Medical Sciences, 2004.
8. Ross Coomber and Others. 2013, *Key Concept in Drugs and Society*. New Delhi: Sage Publications.
9. Sain, Bhim 1991, *Drug Addiction Alcoholism, Smoking obscenity* New Delhi: Mittal Publications.
10. Sandhu, Ranvinder Singh, 2009, *Drug Addiction in Punjab: A Sociological Study*. Amritsar: Guru Nanak Dev University.
11. Singh, Chandra Paul 2000. *Alcohol and Dependence among Industrial Workers*: Delhi: Shipra.
12. Sussman, S and Ames, S.L. (2008). *Drug Abuse: Concepts, Prevention and Cessation*, Cambridge University Press.
13. Verma, P.S. 2017, "*Punjab's Drug Problem: Contours and Characteristics*", Economic and Political Weekly, Vol. LII, No. 3, P.P. 40-43.
14. World Drug Report 2016, United Nations office of Drug and Crime.
15. World Drug Report 2017, United Nations office of Drug and Crime.

**SEMESTER-II
PAPER-I
ENVIRONMENTAL EDUCATION**

Time 1: 30 Hrs.

Total Marks: 50

Terminal: 35

Sessional: 15

Instructions for the Paper Setters:-

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

Course Objectives

After the completion of the course, the student teacher will be able to:

- Reflect upon the concept and need of environmental education.
- Define major eco-systems and their conservation.
- Understand the role of different agencies in the protection of environment.
- Develop desirable attitude, values and respect for protection of environment.

SECTION-A

ENVIRONMENTAL EDUCATION

- a) Environmental education: Concept, objectives, need and guiding principles.
- b) Concept of ecology, environment, biosphere, community, population and ecosystem. Structural and functional components of ecosystem i.e. abiotic and biotic factors food chain, food- web & flow of energy.

SECTION-B

Pollution: Concept, types (air, soil, water, and noise pollution), sources, effect and control of pollution, green house effect, ozone depletion, and climate change.

SECTION-C

ENVIRONMENTAL CONCERNS

- a) Need for sensitizing learners towards concern of environmental conservation (various school subjects and in co-curricular activities)
- b) Various ways and means of protection and preservation of environment with special reference to a forestation and solid waste management.

SECTION-D

Role of government and non-government organizations in protection and preservation of environment.

SEMESTER-II**SESSIONAL WORK:****Performance in unit tests and house examination 5 Marks****Files to be prepared and submitted for evaluation 10 Marks****Assignments on the following:-**

- Work on a project related to any issue of environmental preservation and protection.
- Conduct a survey of environmental problems of the community.

References:-

- Centre for Environmental Education (1997). *The Green Teacher: Ideas, Experience and Learning*. In Educating for the Environment. Ahmadabad: CEE.
- Dani, H.M (1996): *Environmental Education*. Publication Bureau, Panjab University, Chandigarh.
- Garg, K.K and Jain, S.C. *Environment Lessons For Common Man*. Environment Society of India.
- Ghanta R. and Rao, D.B. (1998). *Environmental Education, Problems and Prospectus*. New Delhi: Discovery Publishing House.
- Kohli, V.K. and Kohli, V. (2003). *Environmental Pollution and Management*. Ambala: Vivek Publishers.
- Mukherjee, Roma. (2002). *Environmental Management and Awareness Issues*. New Delhi: Sterling Publishers Pvt. Ltd.
- Raghunathan, M., & Pandey, M. (1999). *The Green Reader: An Introduction to Environmental Concerns & Issues*. Ahmadabad: Centre for Environment Education
- Rajagopalan, R. (2006): *Environmental Studies From Crisis to Cure*. Press Delhi: Oxford University.
- Reddy, K.P. and Reddy, D.N. (2002): *Environmental Education*. Hyderabad: Neelkamal Publications Pvt. Ltd.
- UNEP (2013). *Emerging issues in our global environment (year book)*. United Nations Environment Programme.
- UNESCO-UNEP (1980). *Environment Education: What, Why, How . . .* Paris: International Education Series.
- UNESCO-UNEP (1990). *Basic Concepts in Environmental Education*. In Environment Education Newsletter. Paris: UNESCO.

SEMESTER-II**PAPER-II: ENGLISH (COMPULSORY)****Time: 3 Hours****Max. Marks: 50****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

Texts Prescribed:

1. *Tales of Life* (Guru Nanak Dev University, Amritsar) Stories at Sr. No. 7, 9, 10, 11, 12
2. *Prose for Young Learners* (Guru Nanak Dev University, Amritsar) Essays at Sr. No. 7, 8, 9, 10, 11
3. *English Grammar in Use* (Fourth Edition) by Raymond Murphy, CUP (Units: 49-97)

The syllabus is divided in four sections as mentioned below.

SECTION-A

English Grammar in Use, 4th Edition by Raymond Murphy, CUP (Units: 49-81)

SECTION-B

Personal letter Writing and English Grammar in Use (Units: 82-97)

SECTION-C

Tales of Life (Guru Nanak Dev University, Amritsar) 7, 9, 10, 11, 12

SECTION-D

Prose for Young Learners (Fourth Edition) by Raymond Murphy, CUP 7, 8, 9, 10 and 11

SEMESTER-II

PAPER-III: PUNJABI (COMPULSORY) ਪੰਜਾਬੀ (ਲਾਜ਼ਮੀ)

ਸਮਾਂ: 3 ਘੰਟੇ

ਕੁਲ ਅੰਕ: 50

ਅੰਕ-ਵੰਡ ਅਤੇ ਪਰੀਖਿਅਕ ਲਈ ਹਦਾਇਤਾਂ

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੇ ਚਾਰ ਭਾਗ ਹੋਣਗੇ। ਹਰ ਭਾਗ ਵਿੱਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
2. ਵਿਦਿਆਰਥੀ ਨੇ ਕੁੱਲ ਪੰਜ ਪ੍ਰਸ਼ਨ ਕਰਨੇ ਹਨ। ਹਰ ਭਾਗ ਵਿੱਚੋਂ ਇੱਕ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੈ। ਪੰਜਵਾਂ ਪ੍ਰਸ਼ਨ ਕਿਸੇ ਵੀ ਭਾਗ ਵਿੱਚੋਂ ਕੀਤਾ ਜਾ ਸਕਦਾ ਹੈ।
3. ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦੇ ਬਰਾਬਰ ਅੰਕ ਹਨ।
4. ਪੇਪਰ ਸੈੱਟ ਕਰਨ ਵਾਲਾ ਜੇਕਰ ਚਾਹੇ ਤਾਂ ਪ੍ਰਸ਼ਨਾਂ ਦੀ ਵੰਡ ਅੱਗੋਂ ਵੱਧ ਤੋਂ ਵੱਧ ਚਾਰ ਉਪ-ਪ੍ਰਸ਼ਨਾਂ ਵਿੱਚ ਕਰ ਸਕਦਾ ਹੈ।

ਪਾਠ-ਕ੍ਰਮ ਅਤੇ ਪਾਠ-ਪੁਸਤਕਾਂ

ਸੈਕਸ਼ਨ - ਏ

ਦੋ ਰੰਗ (ਕਹਾਣੀ ਭਾਗ) (ਸੰਪਾ. ਹਰਜਿੰਦਰ ਸਿੰਘ ਢਿੱਲੋਂ ਅਤੇ ਪ੍ਰੀਤਮ ਸਿੰਘ ਸਰਗੋਧੀਆ),
ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਯੂਨੀਵਰਸਿਟੀ, ਅੰਮ੍ਰਿਤਸਰ।
(ਵਿਸ਼ਾ-ਵਸਤੂ/ਸਾਰ/ਲੇਖਕ ਦਾ ਜੀਵਨ ਤੇ ਰਚਨਾ)

ਸੈਕਸ਼ਨ - ਬੀ

ਸੰਸਾਰ ਦੀਆਂ ਪ੍ਰਸਿੱਧ ਹਸਤੀਆਂ (ਜੀਵਨੀ ਨੰ: 10 ਤੋਂ 18 ਤੱਕ)
(ਸੰਪਾ. ਪ੍ਰਿੰ. ਤੇਜਾ ਸਿੰਘ, ਹਰਨਾਮ ਸਿੰਘ ਸ਼ਾਮ),
ਪੰਜਾਬੀ ਸਾਹਿਤ ਪ੍ਰਕਾਸ਼ਨ, ਅੰਮ੍ਰਿਤਸਰ।
(ਵਿਸ਼ਾ/ਸਾਰ/ਨਾਇਕ ਬਿੰਬ)

ਸੈਕਸ਼ਨ - ਸੀ

- (ੳ) ਸ਼ਬਦ-ਬਣਤਰ ਅਤੇ ਸ਼ਬਦ-ਰਚਨਾ : ਪਰਿਭਾਸ਼ਾ, ਮੁਢਲੇ ਸੰਕਲਪ।
(ਅ) ਸ਼ਬਦ ਸ਼੍ਰੇਣੀਆਂ

ਸੈਕਸ਼ਨ - ਡੀ

- (ੳ) ਦਫ਼ਤਰੀ ਚਿੱਠੀ ਪੱਤਰ
(ਅ) ਮੁਹਾਵਰੇ ਅਤੇ ਅਖਾਣ

SEMESTER-II

Mudhli Punjabi

ਮੁੱਢਲੀ ਪੰਜਾਬੀ

(In lieu of Compulsory Punjabi)

ਸਮਾਂ: 3 ਘੰਟੇ

ਕੁਲ ਅੰਕ: 50

ਅੰਕ-ਵੰਡ ਅਤੇ ਪਰੀਖਿਅਕ ਲਈ ਹਦਾਇਤਾਂ

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੇ ਚਾਰ ਭਾਗ ਹੋਣਗੇ। ਹਰ ਭਾਗ ਵਿੱਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
2. ਵਿਦਿਆਰਥੀ ਨੇ ਕੁੱਲ ਪੰਜ ਪ੍ਰਸ਼ਨ ਕਰਨੇ ਹਨ। ਹਰ ਭਾਗ ਵਿੱਚੋਂ ਇਕ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੈ। ਪੰਜਵਾਂ ਪ੍ਰਸ਼ਨ ਕਿਸੇ ਵੀ ਭਾਗ ਵਿੱਚੋਂ ਕੀਤਾ ਜਾ ਸਕਦਾ ਹੈ।
3. ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦੇ ਬਰਾਬਰ ਅੰਕ ਹਨ।
4. ਪੇਪਰ ਸੈੱਟ ਕਰਨ ਵਾਲਾ ਜੇਕਰ ਚਾਹੇ ਤਾਂ ਪ੍ਰਸ਼ਨਾਂ ਦੀ ਵੰਡ ਅੱਗੋਂ ਵੱਧ ਤੋਂ ਵੱਧ ਚਾਰ ਉਪ-ਪ੍ਰਸ਼ਨਾਂ ਵਿੱਚ ਕਰ ਸਕਦਾ ਹੈ।

ਪਾਠ-ਕ੍ਰਮ

ਸੈਕਸ਼ਨ-ਏ

ਸ਼ਬਦ ਸ਼੍ਰੇਣੀਆਂ : ਪਛਾਣ ਅਤੇ ਵਰਤੋਂ
(ਨਾਂਵ, ਪੜਨਾਂਵ, ਕਿਰਿਆ, ਵਿਸ਼ੇਸ਼ਣ, ਕਿਰਿਆ ਵਿਸ਼ੇਸ਼ਣ, ਸਬੰਧਕ, ਯੋਜਕ ਅਤੇ ਵਿਸਮਿਕ)

ਸੈਕਸ਼ਨ-ਬੀ

ਪੰਜਾਬੀ ਵਾਕ ਬਣਤਰ : ਮੁੱਢਲੀ ਜਾਣ-ਪਛਾਣ
(ੳ) ਸਾਧਾਰਨ ਵਾਕ, ਸੰਯੁਕਤ ਵਾਕ ਅਤੇ ਮਿਸ਼ਰਤ ਵਾਕ (ਪਛਾਣ ਅਤੇ ਵਰਤੋਂ)
(ਅ) ਬਿਆਨੀਆ ਵਾਕ, ਪ੍ਰਸ਼ਨਵਾਚਕ ਵਾਕ ਅਤੇ ਹੁਕਮੀ ਵਾਕ (ਪਛਾਣ ਅਤੇ ਵਰਤੋਂ)

ਸੈਕਸ਼ਨ-ਸੀ

ਪੈਰ੍ਹਾ ਰਚਨਾ
ਸੰਖੇਪ ਰਚਨਾ

ਸੈਕਸ਼ਨ-ਡੀ

ਚਿੱਠੀ ਪੱਤਰ (ਘਰੇਲੂ ਅਤੇ ਦਫ਼ਤਰੀ)
ਅਖਾਣ ਅਤੇ ਮੁਹਾਵਰੇ

SEMESTER-II

**PUNJAB HISTORY & CULTURE (C 321 TO 1000 A.D.)
(Special Paper in lieu of Punjabi compulsory)
(For those students who are not domicile of Punjab)**

Time: 3 Hours**Max. Marks: 50****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

1. Punjab under Chandragupta Maurya and Ashoka.
2. The Kushans and their Contribution to the Punjab.

SECTION-B

3. The Panjab under the Gupta Emperor.
4. The Punjab under the Vardhana Emperors

SECTION-C

5. Political Developments 7th Century to 1000 A.D. (Survey of Political) Institutions.
6. Socio-cultural History of Punjab from 7th to 1000 A.D.

SECTION-D

7. Development of languages and Literature.
8. Development of art & Architecture

Suggested Readings:-

1. L. Joshi (ed): *History and Culture of the Punjab*, Art-I, Patiala, 1989 (3rd edition)
2. L.M. Joshi and Fauja Singh (ed); *History of Punjab*, Vol.I, Patiala 1977.
3. Budha Parkash: *Glimpses of Ancient Punjab*, Patiala, 1983.
4. B.N. Sharma: *Life in Northern India*, Delhi. 1966.

**SEMESTER-II
PAPER-IV, STREAM-1
ENGLISH (ELECTIVE)**

Time: 3 Hours

Max. Marks: 100

Instructions for the Paper Setters:-

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

Books Prescribed:

1. *Untouchable* by Mulk Raj Anand.
2. *The School for Scandal* by Sheridan
3. *Glossary of Literary Terms* by M.H. Abrams, Wadsworth CENGAGE Learning Publishers, 8th Edn., 2008.
4. *Better Pronunciation of English* by J.D.O'Connor

Course Contents:-

1. *Untouchable* -- Complete Text
2. *The School for Scandal*—Complete Text
3. Literary Terms: Burlesque, Elegy, Hyperbole, Metaphor, Poetic Justice, Point of view, Dramatic Monologue, Tragicomedy
4. Transcription of Words: garage, data, menu, hello, cadet, exit, rebel (n), rebel (v), conduct(n), conduct (v), consume, idiot, depot, madam, handsome, petrol, perfect (adj.), perfect (v), vehicle, healthy, wealthy, police, sandwich, career, talent

The syllabus is divided in four sections as mentioned below:

SECTION-A

(a) Literary Terms: Burlesque, Elegy, Hyperbole, Metaphor, Poetic Justice, Point of view, Dramatic Monologue, Tragicomedy

(b) Transcription of Words: garage, data, menu, hello, cadet, exit, rebel (n), rebel (v), conduct(n), conduct (v), consume, idiot, depot, madam, handsome, petrol, perfect (adj.), perfect (v), vehicle, healthy, wealthy, police, sandwich, career, talent.

SECTION-B

Acts I,II,III of the play *The School for Scandal*

SECTION-C

Acts IV, V of the play *The School for Scandal*

SECTION-D

Complete text of the novel *Untouchable*

SECTION–A

- Two questions would be set from **SECTION–A** of the syllabus. Five literary terms and ten words for transcription (five from the prescribed list and five disyllabic words would be set in each question. The students are required to attempt any one of them. (5x2=10+10x1=10)

SECTION–B

- Two questions will be set from **SECTION–B** of the syllabus. One essay type question based on the theme, plot, characterization and Reference to the context would be set with eight marks. The second part of the question would carry three short answer questions. Each question would carry four marks. The students would be required to attempt any one of the two sets of questions. (8+3x4=20)

SECTION–C

- Two questions will be set from **SECTION–C** of the syllabus. One essay type question based on the theme, plot, characterization and Reference to the context would be set with eight marks. The second part of the question would carry three short answer questions. Each question would carry four marks. The students would be required to attempt any one of the two sets of questions. (8+3x4=20)

SECTION–D

- Two questions will be set from **SECTION–D** of the syllabus. One essay type question based on the theme, plot, characterization and Reference to the context would be set with eight marks. The second part of the question would carry three short answer questions. Each question would carry four marks. The students would be required to attempt any one of the two sets of questions. (8+3x4=20)

SEMESTER-II

PAPER-IV, STREAM-1
PUNJABI (ELECTIVE) ਪੰਜਾਬੀ (ਇਲੈਕਟਿਵ)

ਸਮਾਂ ਤਿੰਨ ਘੰਟੇ

ਕੁਲ ਅੰਕ : 100

ਅੰਕ-ਵੰਡ ਅਤੇ ਪੇਪਰ ਸੈਟਰ ਲਈ ਹਦਾਇਤਾਂ

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੇ ਚਾਰ ਭਾਗ ਹੋਣਗੇ। ਹਰ ਭਾਗ ਵਿਚ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
2. ਵਿਦਿਆਰਥੀ ਨੇ ਕੁੱਲ ਪੰਜ ਪ੍ਰਸ਼ਨ ਕਰਨੇ ਹਨ। ਹਰ ਭਾਗ ਵਿਚੋਂ ਇਕ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੈ। ਪੰਜਵਾਂ ਪ੍ਰਸ਼ਨ ਕਿਸੇ ਵੀ ਭਾਗ ਵਿਚੋਂ ਕੀਤਾ ਜਾ ਸਕਦਾ ਹੈ।
3. ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦੇ ਦਸ ਅੰਕ ਹਨ।
4. ਪੇਪਰ ਸੈਟ ਕਰਨ ਵਾਲਾ ਜੇਕਰ ਚਾਹੇ ਤਾਂ ਪ੍ਰਸ਼ਨਾਂ ਦੀ ਵੰਡ ਅੱਗੋਂ ਵੱਧ ਤੋਂ ਵੱਧ ਚਾਰ ਉਪ-ਪ੍ਰਸ਼ਨਾਂ ਵਿਚ ਕਰ ਸਕਦਾ ਹੈ।

ਸੈਕਸ਼ਨ- ਏ

ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ (1700 ਤੱਕ)

(ਸੰਪਾ. ਡਾ. ਧਰਮ ਸਿੰਘ, ਡਾ. ਹਿਰਦੇਜੀਤ ਭੋਗਲ)

(ੳ) ਸਾਹਿਤਕ ਰੂਪਾਂ ਦਾ ਇਤਿਹਾਸ (ਨਿਕਾਸ ਤੇ ਵਿਕਾਸ)

(ਅ) ਪ੍ਰਵਿਰਤੀਆਂ

20 ਅੰਕ

ਸੈਕਸ਼ਨ- ਬੀ

ਮੰਚ ਘਰ (ਸੰਪਾ. ਕੁਲਦੀਪ ਸਿੰਘ ਧੀਰ ਅਤੇ ਹਿਰਦੇਜੀਤ ਸਿੰਘ ਭੋਗਲ), ਗੁਰੂ ਨਾਨਕ ਦੇਵ
ਯੂਨੀਵਰਸਿਟੀ, ਅੰਮ੍ਰਿਤਸਰ।

(ਵਿਸ਼ਾ- ਵਸਤੂ/ਸਾਰ/ਪਾਤਰ ਉਸਾਰੀ/ਕਲਾ ਪੱਖ)

20 ਅੰਕ

ਸੈਕਸ਼ਨ- ਸੀ

(ੳ) ਦਫ਼ਤਰੀ ਅਤੇ ਘਰੇਲੂ ਚਿੱਠੀ ਪੱਤਰ

(ਅ) ਵਿਸ਼ਰਾਮ ਚਿੰਨ੍ਹ : ਪਰਿਭਾਸ਼ਾ, ਪਛਾਣ ਅਤੇ ਵਰਤੋਂ ਦੇ ਨਿਯਮ

20 ਅੰਕ

ਸੈਕਸ਼ਨ- ਡੀ

ਕੋਸ਼ਕਾਰੀ ਅਤੇ ਪੰਜਾਬੀ ਕੋਸ਼ਕਾਰੀ

(ਕੋਸ਼ਕਾਰੀ ਦੀ ਪਰਿਭਾਸ਼ਾ/ਵਰਗੀਕਰਣ/ਪੰਜਾਬੀ ਕੋਸ਼ਕਾਰੀ ਦਾ ਨਿਕਾਸ ਤੇ ਵਿਕਾਸ)

20 ਅੰਕ

SEMESTER-II

PAPER-IV, STREAM-1
HINDI (ELECTIVE)

गद्य साहित्य : सैद्धांतिकी, व्याकरण तथा पत्रकारिता

समय— 3 घण्टे

पूर्णांक: 100

Instructions for the Paper Setters:-

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

सैक्शन-ए

व्याख्या के लिए निर्धारित कृति

गद्य-त्रिवेणी: संपादक— डॉ. सुखविन्दर कौर बाठ, प्रकाशक— प्रैस एण्ड पब्लिकेशन ब्यूरो, गुरु नानक देव यूनिवर्सिटी, अमृतसर। 2 निबंध (कछुआ धर्म, साहित्य की महत्ता), 2 एकांकी(पहली दो), 2 कहानी (पहली दो)

सैक्शन-बी

गद्य त्रिवेणी में निर्धारित लेखकों का सामान्य परिचय।

गद्य त्रिवेणी में निर्धारित निबन्ध (कछुआ धर्म, साहित्य महत्ता), एकांकी (पहली दो) कहानी (पहली दो)

सम्बन्धित प्रश्न

सैक्शन-सी

आदर्श हिन्दी व्याकरण तथा सैद्धांतिकी : डॉ. एच.एम.एल. सूद, वागीश प्रकाशन, जालंधर। 'हिन्दी व्यावहारिक व्याकरण' पुस्तक भी निर्धारित की गयी हैं। (क) सैद्धांतिकी-निबंध, कहानी, एकांकी: परिभाषा और तत्व (ख) उपसर्ग, प्रत्यय, अनेक शब्दों के लिए एक शब्द, समानार्थी, विपरीतार्थक।

सैक्शन-डी

पत्रकारिता : संलग्न शब्दावली (अंग्रेजी से हिन्दी)

कार्यालयी पत्रों का सैद्धांतिक परिचय-चार पत्र (बैंकिंग व्यवहार संबंधी पत्र, शिकायत संबंधी पत्र, परिपत्र, नौकरी हेतु आवेदन), कार्यालयी पत्रों के प्रकार (व्यावहारिक पक्ष)

पत्रकारिता सम्बन्धी शब्दावली

1. Advertisement	विज्ञापन
2. Article	लेख
3. Adaptation	रूपांतर
4. Acknowledgement of source	सूत्र का उल्लेख
5. Art Editor	कला सम्पादक
6. Audience	श्रोता
7. All India Radio	आकाशवाणी
8. Agricultural News	कृषि समाचार
9. Announcer	उदघोषक
10. Banner	पताका
11. Bigger Type	मोटा टाइप
12. Body	बाँडी, काय

B.A. B.ED. (FOUR YEARS INTEGRATED DEGREE PROGRAMME)

13. Booklet	ग्रन्थिका
14. Box	चौखटा
15. Bulletin	बुलेटिन
16. Broadcast	प्रसारण
17. Brochure	विवरणिका
18. Canons of journalism	पत्रकारिता के नीति सिद्धांत
19. Caption	शीर्षक
20. Cartoons	व्यंग्य-चित्र
21. Circulation	प्रसार – संख्या
22. Classifieds	वर्गीकृत विज्ञापन
23. Compositor	अक्षर – योजक
24. Correspondent	संवाददाता
25. Cub reporter	नौसिखिया पत्रकार
26. Columnist	स्तम्भकार
27. Communication	संचार
28. Communication satellite	संचार-उपग्रह
29. Copyright	प्रतिलिप्याधिकार
30. Daily	दैनिक
31. Defamation	मानहानि
32. Development Journalism	विकास पत्रकारिता
33. Editor	सम्पादक
34. Editorial	सम्पादकीय
35. Exclusive	विशिष्ट समाचार
36. Feature	रूपलेख, फीचर
37. Feedback	प्रतिपुष्टि
38. Flagline	चेतावनी
39. Folio	पृष्ठ – संख्या
40. Fortnightly	पाक्षिक
41. Free lancer	स्वतंत्र पत्रकार
42. Ghost writer	छद्म लेखक
43. Hoarding	प्रचार पटल
44. Human Interest feature	मनोरचक फीचर, मर्मस्पर्शी रूपलेख
45. House Journal	संस्था- पत्र
46. Interview	साक्षात्कार
47. Innovation	नवाचार

B.A. B.ED. (FOUR YEARS INTEGRATED DEGREE PROGRAMME)

48. Jacket	पुस्तकावरण
49. Layout	सज्जा, विन्यास, अभिन्यास
50. Letter spacing	अक्षर अंतराल
51. Live broadcast	सीधा प्रसारण
52. Local News	स्थानीय समाचार
53. Make up	पृष्ठ – सज्जा
54. Mass communication	जन – संचार
55. Monthly magazine	मासिक पत्रिका
56. News analysis	समाचार विश्लेषण
57. Out of print	अप्राप्य
58. Periodical	नियतकालिक पत्रिका
59. Pix	चित्र
60. Playwright	नाटककार
61. Press release	प्रेस-विज्ञप्ति
62. Quarterly	त्रैमासिक
63. Screenplay	पटकथा
64. Sting operation	भंडाफोड़ पत्रकारिता
65. Spot commercial	अंतराल विज्ञापन
66. Sponsored programme	प्रायोजित कार्यक्रम
67. Subscriber	ग्राहक
68. Tabloid Newspaper	छोटा समाचार पत्र
69. Wrong font	विजातीय टाइप
70. Working journalist	श्रमजीवी पत्रकार

SEMESTER-II**PAPER-IV, STREAM-1
PHILOSOPHY****ETHICS: WESTERN AND INDIAN****Time: 3 Hours****Max. Marks: 100****Lectures to be delivered: 6 per week****Pass Marks 35 %****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

1. An Introduction to Ethics: Definition, Nature, Scope and Utility
2. Relation of Ethics with Religion and Science

SECTION-B

1. Plato: Virtues.
2. Kant: Categorical Imperative, Good Will.
3. Utilitarianism: Meaning, Definition, Views of Bentham and J.S.Mill.

SECTION-C

1. Bhagavad Gita: Nishkama Karma.
2. Guru Granth Sahib: Truth, Contentment and Hukam.

SECTION-D

1. Buddhism: Four Noble Truths and Eight-Fold Path
2. Yoga Philosophy: Ashtangyoga
3. Jainism: Tri Ratna and Kaivalya.

Recommended Readings:-**English Books:-**

1. Avtar Singh, *Ethics of the Sikhs*, Punjabi University, Patiala, 1970.
2. Balbir Singh, *Principles of Ethics*, S. Nagin, Jalandhar, 1978.
3. Duignan, Brian, *The History of Western Ethics*, Britannica Educational Pub., New York, 2011.
4. Gupta, S.N. Das, *A History of Indian Philosophy*, Vol. II, George Allen and Unwin, London, 1971.
5. Intyre, Alasdair C Mac, *A Short History of Ethics*, Routledge, 1998.

6. Joshi, H.M, *Traditional and Contemporary Ethics; Western and Indian*, Bharatiya Vidya Prakashan, Delhi, 2000.
7. Kaveeshwar G.W., *The Ethics of the Gita*, Motilal Banarsidass, Delhi, 1971.
8. Mackenzie, J.S., *Manual of Ethics*, Hinds, Noble & Eldridge, New York, 2005.
9. Norman Richard, *The Moral Philosophers: An Introduction to Ethics*, Oxford University Press, Oxford, 1998.
10. Tiwari, Kedar Nath, *Classical Indian Ethical Thoughts: A Philosophical Study of Hindu, Jaina and Buddha Morals*, Motilal Banarsidass, Delhi, 1998.
11. Vasu, Srisa Chandra, *An Introduction to the Yoga Philosophy*, AMS Press, New York, 1974.
12. William Lillies, *Introduction to Ethics*, Methuen, London, 2001.

Punjabi Books:-

1. ਹਉਰਾ, ਕੁਲਦੀਪ ਸਿੰਘ, *ਸਿੱਖ ਨੈਤਿਕਤਾ ਦੀ ਰੂਪ ਰੇਖਾ*, ਸਿਮਰ ਸਾਹਿਤ ਸਦਨ, ਅੰਮ੍ਰਿਤਸਰ।
2. ਗੁਪਤਾ, ਸ਼ਾਂਤੀ ਨਾਥ, *ਭਾਰਤੀ ਦਰਸ਼ਨ*, ਪੰਜਾਬ ਸਟੇਟ ਯੂਨੀਵਰਸਿਟੀ, ਚੰਡੀਗੜ੍ਹ, 1994.
3. ਚੰਦ, ਰਣਧੀਰ ਸਿੰਘ, *ਯੋਗ ਦਰਸ਼ਨ*, ਪੰਜਾਬੀ ਰਾਈਟਰਜ਼ ਕੋਆਪਰੇਟਿਵ ਸੋਸਾਇਟੀ, ਲੁਧਿਆਣਾ।
4. ਨਿਰਾਕਾਰੀ, ਆਰ.ਡੀ., *ਭਾਰਤੀ ਦਰਸ਼ਨ*, ਪੰਜਾਬ ਸਟੇਟ ਯੂਨੀਵਰਸਿਟੀ, ਚੰਡੀਗੜ੍ਹ, 1994.
5. ਵਜ਼ੀਰ ਸਿੰਘ (ਡਾ.) ਸਿੱਖ ਦਰਸ਼ਨ ਧਾਰਾ, ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ

Hindi Books:-

1. ਵਰਮਾ, ਵੇਦ ਪ੍ਰਕਾਸ਼, *ਨੀਤੀ ਸ਼ਾਸਤਰ*, ਅਲਾਇਡ ਪਬਲਿਸ਼ਰਜ਼, ਦਿੱਲੀ, 1977.

SEMESTER-II

PAPER-IV, STREAM-1
PSYCHOLOGY
BASIC PSYCHOLOGICAL PROCESSES-II
(THEORY)

Time: 3 hours

Max. Marks: 100
Theory Marks: 75
Practical Marks: 25

Pass Marks: 35% of the subject
(Theory and Practical Separately)

Instructions for the Paper Setters:-

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

Neuron (Structure and Functions), Synapse and Types of Synapse, Resting and Action Potentials, Nervous System (Central, Peripheral and Autonomic), Glands (Endocrine and Exocrine)

SECTION-B

Motivation: Concept and Nature of Motivation, Types of Motivation, Needs, Drives and Incentives, Conflicts and Frustration (Concept, Nature and Types}

Emotions: Concept and Nature of Emotions, Types of Emotions, Theories of Emotions (James Lange, Cannon Bard and Lindzey), Physiological Correlates of Emotions

SECTION-C

Personality: Concept of Personality, Characteristics of Personality, Theories of Personality (Adler, Jung, Allport, Eysenck and Cattell), Techniques of Assessment (Psychometric and Projective)

SECTION-D

Measures of Variability: Meaning and Characteristics of Variability, Range, Quartile Deviation, Average Deviation and Standard Deviation with Merits and Demerits

References:

1. Benjamin, Jr. L.T., Hopkings, J.R. & Nation, J.R. (1987). *Psychology*. Mcmillan Publishing Company, New York.
2. Chaplin, J.R. & Kraiwic, T.S. (1985). *Systems and Theories of Psychology*. Holt, Rinehart and Winston, Inc., New York.
3. Crooks, R.L. & Strin, J. (1988). *Psychology; Sciences: Behaviour and Life*. Holt Rinehart and Winston, Inc., New York.
4. Morgan, G.T., King, P.A., Weisz, T.R. & Schopler, J. (1999). *Introduction to Psychology*. Mcgraw Hill Book Co., New York.
5. Baron, R.A. (1996). *Psychology*. New Delhi: Prentice Hall of India.
6. Aron (2007). *Statistics for Psychology*. Pearson Education, New Delhi.
7. Coon, D.L., & Mitterer, J.O. (2007). *Introduction to Psychology; Gateways to Mind and Behaviour*. Thomson Wadsworth.
8. Solso, R.L. (2007). *Cognitive Psychology*. Pearson Education, New Delhi.
9. Hall, S.S. & Lindzey (1969). *Theories of Personality*. Wiley Eastern Ltd. New Delhi.
10. Pinel, J.P.J. (2007). *Biopsychology*. Pearson Education, New Delhi.

SEMESTER-II**PAPER-IV, STREAM-1
PSYCHOLOGY****(PRACTICAL)****Marks: 25****Instructions for the Practical Examination:**

Students are supposed to perform five practicals out of 6 mentioned in the syllabus. Practical examination will be of 3 hours duration. External examiner will conduct the practical examination. The students will perform one practical in the exam carrying 25 marks. Evaluation of the practical would be done on the basis of write-up of file book (5 Marks), performance and viva-voce (20 Marks) relating to the practicals. In case students have not completed 5 practicals, the examiner will deduct marks at the rate of 5 for each left practical out of total evaluation of the student. No reappear will be allowed in the practical examination. Fail in the practical will be considered fail overall in the subject.

Five Practical have to be performed out of the following:

1. Effect of Knowledge of Results on Performance.
2. Level of Aspiration.
3. Projective Techniques-Completion Test.
4. Personality Inventory
5. Zeigarnick-effect
6. Measurement of Emotions

SEMESTER-II

PAPER-IV, STREAM-1
SOCIOLOGY

FUNDAMENTALS OF SOCIOLOGY-II

Time: 3 Hours

Max. Marks: 100

Instructions for the Paper Setters:-

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

- a) **Social Structure:** Meaning, Characteristics, Elements- Norms and Values, Status and Roles.
- b) **Culture:** Meaning, Elements and Cultural lag.

SECTION-B

- a) **Social Stratification:** Meaning and Forms.
- b) **Social Mobility:** Meaning, Types and Causes.

SECTION-C

- a) **Social Control:** Meaning and Significance.
- b) **Agencies of Social Control- Formal:** Law. **Informal:** Folkways and Mores.

SECTION-D

- a) **Social Disorganization:** Meaning and Forms: Corruption, Crime and Terrorism.

Recommended Readings:-

1. Ahuja, Ram. 1993, *Indian Social System*. Jaipur: Rawat Publications.
2. Abraham, M. Francis. 2006, *Contemporary Sociology*. New Delhi: Oxford University.
3. Bottomore, T.B.S. 1972, *Sociology*. Punjabi Translation by Parkash Singh Jammu, Publication Bureau, Punjabi University, Patiala.
4. Giddens, Anthony. 2006, *Sociology*. Cambridge: Polity Press.
5. Gisbert, Pascual. 1969, *Fundamentals of Sociology*. Bombay: Orient Longmans.
6. Haralambos, Michael and Robin Heald. 2013, *Sociology: Themes and Perspectives*. New Delhi: Oxford University Press.
7. Jayaram, N. 1988, *Introductory Sociology*. Madras: Macmillan.
8. Johnson, H.M. 1995, *Sociology: A Systematic Introduction*. New Delhi: Allied Publishers.
9. Kapila, S. 1989, *A Text Book of Sociology*, Part-I & II. Jalandhar: New Academic House.
10. Kapila, S. 2001, *Fundamentals of Sociology*, Vol. I. Panchkula, Kapila Publishers.
11. Macionis, John.J and Ken Plumer. 2014, *Sociology: A Global Introduction*. London: Pearson.
12. McGee, Reece et al. 1977, *Sociology-An Introduction*. Hindale: Reinehart and Winston.
13. Oommen, T.K and C.N Venugopal. 2010, *Sociology*. Lucknow: Eastern Book Company.

SEMESTER-II**PAPER-V & VI, STREAM-2
MATHEMATICS****PAPER-I: CALCULUS AND DIFFERENTIAL EQUATIONS****Time: 3 Hours****Marks: 50****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

Asymptotes, Tests for concavity and convexity, Points of inflexion, Multiple Points, Curvature, Tracing of Curves (Cartesian and Parametric coordinates only).

SECTION-B

Integration of hyperbolic functions. Reduction formulae. Definite integrals. Fundamental theorem of integral calculus. Quadrature, rectification.

SECTION-C

Exact differential equations. First order and higher degree equations solvable for x, y, p . Clairaut's form and singular solutions. Geometrical meaning of a differential equation. Orthogonal trajectories.

SECTION-D

Linear differential equations with constant and variable coefficients. Variation of Parameters method, reduction method, series solutions of differential equations. Power series method, Bessel and Legendre equations (only series solution).

Books Recommended:-

1. D.A. Murray: Introductory Course in Differential Equations. Orient Longman (India), 1967.
2. G.F. Simmons: Differential Equations, Tata McGraw Hill, 1972.
3. E.A. Coddington: An Introduction to Ordinary Differential Equations, Prentice Hall of India, 1961.
4. Gorakh Prasad: Integral Calculus, Pothishala Pvt. Ltd., Allahabad.
5. Erwin Kreyszig: Advanced Engineering Mathematics, John Wiley and Sons, 1999. 52

SEMESTER-II**PAPER-V & VI, STREAM-2
MATHEMATICS****PAPER-II: CALCULUS****Time: 3 Hours****Marks: 50****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

Limit and Continuity of functions of two variables, Partial differentiation, Change of variables, Partial derivatives and differentiability of real-valued functions of two variables, Schwartz's and Young's Theorem, Statements of Inverse and implicit function theorems and applications.

SECTION-B

Euler's theorem on homogeneous functions, Taylor's theorem for functions of two variables, Jacobians, Envelopes. Evolutes, Maxima, Minima and saddle points of functions of two variables.

SECTION-C

Lagrange's undetermined multiplier method, Double and Triple Integrals, Change of variables., Applications to evaluation of areas, Volumes, Surfaces of solid of revolution, Change of order of integration in double integrals.

SECTION-D

Application to evaluation of area, volume, surface of solids of revolutions.

Books Recommended:-

1. Narayan, S. and P.K. Mittal: Integral Calculus. Sultan Chand & Sons.
2. Kreyszig, E.: Advanced Engineering Mathematics.
3. Narayan S. and P.K. Mittal: Differential Calculus, Sultan Chand & Sons.

SEMESTER-II**PAPER-V & VI, STREAM-2
COMPUTER SCIENCE****PROGRAMMING USING C
(THEORY)****Time: 3 Hours
4 Hours/week****Max. Marks: 100
Theory Marks: 75
Practical Marks: 25****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

Note for the Candidates:

The students can use only Non-programmable & Non-storage type calculator.

Practical marks will include the appropriate weightage for proper maintenance of Lab record

SECTION-A

Data Representation, Introduction to Number Systems and Character Codes, Flow Charts, Problem Analysis, decision tables, pseudo codes and, algorithms.

SECTION-B**Programming Languages C:**

Basics of C: Introduction to C, Applications and Advantages of C, Tokens, Types of Errors

Data Types: Basic & Derived Data Types, User Defined Data Types, Declaring and initializing variables.

Operators and Expressions: Types of operators (Unary, Binary, Ternary), Precedence and Associativity

Data I/O Functions: Types of I/O function, Formatted & Unformatted console I/O Functions

SECTION-C

Control Statements: Jumping, Branching and Looping-Entry controlled and exit controlled, Advantages/Disadvantages of loops, difference between for, while and do-while.

Arrays: Types of Arrays, One Dimensional and Two Dimensional Arrays.

Strings: Introduction to Strings and String functions, array of strings.

SECTION-D

Functions: User Defined & Library Function, Function (Prototype, Declaration, Definition), Methods of passing arguments, local and global functions, Recursion.

Storage Classes: Introduction to various storage classes, scope and lifetime of a variable, Storage class specifiers (auto, register, static, extern), advantages and disadvantages.

Structure and Union: Introduction to structure and union, pointers with structure.

SEMESTER-II**COMPUTER SCIENCE****(PRACTICAL)****Marks: 25**

Practical based on Programming in C

2 Hours/week**Books Suggested:-**

- (i) Programming with C Languages C. Schaum Series.
- (ii) YashwantKanitkar – Let Us C
- (iii) C Programming by Stephen G Kochan

SEMESTER-II**PAPER-V & VI, STREAM-2
ECONOMICS****MACROECONOMICS****Time: 3 Hours****Max. Marks: 100****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

Distinction between Micro and Macro Economics; Determination of Income and Employment: Classical and Keynesian models; Say's Law of Market and aggregate demand and aggregate supply.

Consumption functions; average (short-run and long run) and marginal propensity to consume; static and dynamic multipliers.

SECTION-B

Investment: Meaning, Demand schedules and factors affecting investment decision. Marginal Efficiency of Capital. Accelerator, multiplier-accelerator interaction.

Trade cycles-meaning, characteristics and phases. Samuelson and Hicks Models of trade cycles.

SECTION-C

Money: Its functions and role. Money and Capital Markets (Introductory). Quantity Theory of Money. Fisher's and Cambridge's equations. Liquidity preference theory.

Banking: Definitions of banks. Credit creation and credit control.

SECTION-D

Inflation: Concept, Causes and cures. Inflation-unemployment Trade-off (only Phillips' contribution).

Macroeconomic Policies: Fiscal policy – meaning, objectives and instruments. Monetary policy – meaning, objectives and instruments.

Recommended Texts:

1. Shapiro, E. Macroeconomic Analysis, Harcourt, Brach and World, New York, 1978.
2. Dernaburg, T.F. and MC Dougall D.M., Macroeconomics: the Measurement, Analysis and Control of Aggregate Economic Activity, McGraw-Hill, Kogakusha, Tokyo, 1972.
3. Gupta, S.B. Monetary Economics: Institutions, Theory and Policy, S. Chand, New Delhi, 2000.

SEMESTER-II
PAPER-V & VI, STREAM-3
HISTORY
HISTORY OF INDIA (C. 1000–A.D.1707)

Time: 3 Hours

Max. Marks: 100

Instructions for the Paper Setters:-

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

1. **The Conquests of the Ghaznavis and Gauris:** Invasions of Mahmud Ghaznavi; their effects, Battles of Muhammad Ghauri, Causes of the success of the Turks.
2. **Establishment of the Sultanate of Delhi:** Political and military development under Qutabuddin Aibak, Iltutmish and his successors; Consolidation of the Sultanate under Balban and the Mongol invasions.

SECTION-B

3. **The Khiljis:** Emergence of the Khiljis under Jalaluddin and Alauddin Khilji; Alauddin's conquests, the Mongol invasions; Treatment of the nobility; Land revenue reforms; Economic reforms. **The Tughlaqs:** Muhammad-bin-Tughlaq; His experiments; Causes of disaffection and revolts; Feroze Tughlaq; Administrative and economic policies and their effects; Taimur's Invasions.
4. **The Vijaynagar Kingdom:** Establishment and expansion; Polity, Economy and Administration; Art and Architecture.

SECTION-C

5. **Mughal-Afghan Struggle (1526-1556):** Advent of the Mughals under Babur; Battle of Panipat and its aftermath; Battle of Kanwaha, Battles of Humayun; expansion of the Afghan power under Sher Shah Suri, Administrative reforms; return of Humayun.
6. **Re-establishment and expansion of the Mughal Empire under Akbar:** Conquests, extent of empire, Religious policy, Rajput policy. **Expansion and Decline under Akbar's Successors :** Jahangir and Mewar; North-western campaigns; Extension of influence over the Deccan; Conquest of Ahmednagar by Shah Jahan; Rise of Aurangzeb to power.

SECTION-D

7. **The Mughal Government, Administration and Culture:** Position of the King; Central and local administration; Land revenue system; Mansabdari; Jagirdari; State policy towards agriculture, Trade and Commerce, Literature, Art and Architecture and Culture.
8. **The establishment of Maratha Power:** The rise of Shivaji, Maratha administration, Land revenue system; Chauth and Sardeshmukhi.

Suggested Reading

1. Chandra, Satish, *History of Medieval India*, Orient Black Swan, Hyderabad, 2007
2. Chandra, Satish, *Medieval India*, Vol. I & II, Har- Anand Publication Pvt. Ltd. New Delhi, 2010
3. Mehta, J.L. *Medieval Indian Society and Culture (Advanced Study in the History of Medieval India*, Vol. III), Sterling Publication, New Delhi, 2009
4. Rizivi, S.A.A., *The Wonder That Was India-II (1200-1700)*, Picador India,
5. Mahajan, V.D., *Medieval India*, S. Chand and Publication, New Delhi, 2010

SEMESTER-II

PAPER-V & VI, STREAM-3
GEOGRAPHYPHYSICAL GEOGRAPHY – II: CLIMATOLOGY & OCEANOGRAPHY
(THEORY)

Time: 3 Hours

Max. Marks: 100

Theory Marks: 70

Practical Marks: 30

Instructions for the Paper Setters:-

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

Note: Stencil/outline maps and coloured pencils are allowed

Objective:

The objective of this paper is to acquaint the students with the elements and attributes of climatology and oceanography as climate plays a very vital role in human life and oceans are storehouses of resources.

SECTION-A

Definition of Climatology: Climate and Weather.

Climate: Elements and controls.

Physical structure of the atmosphere and attributes of different layers, Physical and Chemical composition of the atmosphere: Dust particles, vapour particles, active gases, inert gases.

Insolation and Temperature: Horizontal distribution of insolation, factors affecting temperature of a place, vertical and horizontal and annual, seasonal and diurnal distribution of temperature.

SECTION-B

Atmospheric Pressure and Winds Distribution: Atmospheric disturbances (Tropical cyclones, temperate cyclones and anticyclones).

Atmospheric Moisture: Forms of condensation – Cloud, dew, fog and frost. Precipitation forms and types. World patterns of precipitation: Spatial and seasonal.

Climatic Classifications and their Bases: Elementary discussion of Koppen's classification of climates and climatic types.

Role of Climate in Human Life: Atmospheric pollution and global warming – general causes, consequences and measure of control.

SECTION–C

Oceanography: Definition, topography of the ocean basins; continental shelf, continental slope, deep sea plain and oceanic deep.

Features: Trench, trough, oceanic ridge, guyots, seamount. Factors controlling the world patterns of distribution of temperature and salinity in the ocean waters.

SECTION–D

Movements of Oceanic Waters: Waves and currents. Surface currents of the oceans. Marine Flora, Fauna and Deposits, Corals. Ocean as storehouse of resources for the future.

Recommended Books:-

1. Bhutani, Smita: *Our Atmosphere*, Edited by R.C. Chandna, Kalyani Publishers, Ludhiana, Delhi, **2002**.
2. Critchfield, H.J.: *General Climatology*, Prentice Hall of India, Private Ltd., New Delhi, **1983**.
3. Gross, Grant, M.: *Oceanography: A View of the Earth*, Prentice Hall, New Jersey, **1995**.
4. Lal, D.S.: *Climatology*, **Sharda Pustak Bhawan, Allahabad, 2011**.
5. Mathew, J.R.: *Climatology*, McGraw Hill, New Latest Edition.
6. Monkhouse, F.J.: *The Principles of Physical Geography*, University of London Press, London Latest Edition, **1975**.
7. Pattersen, S.: *Introduction to Meteorology*, McGraw Hill Book Co., London, Latest Edition.
8. Stringer, E.T.: *Foundations of Climatology*. Subject Publications, Delhi, 1982.
9. Trewartha, G.T.: *An Introduction to Climate*, McGraw Hill Book Co., New Delhi, International Student Edition, 1980.
10. Khan, N.: *An Introduction to Physical Geography*. Concept New Delhi, **2002**.
11. King, C.A.M.: *Beaches and Coasts*, E. Arnold, London, 1959.
12. King, C.A.M.: *Oceanography*, E. Arnold, London, Latest Edition.
13. Sharma, R.C. & M. Vatel: *Oceanography for Geographers*, Chetyna, Allahabad 1970.
14. Shepar, F.P.: *Submarine Geology*, Harper & Sons, New York, 1948.
15. Sverdrup, H.U. et.al. : *The Oceans*. Prentice Hall, New Jersey, U.S.A. 1959.
16. Singh, Savinder: *Physical Geography*, **Pravalika Publications, Allahabad, 2015**.

SEMESTER-II**PAPER-V & VI, STREAM-3
GEOGRAPHY****CARTOGRAPHY-II
(PRACTICAL)****Time: 3 Hours****Total Marks: 30****Written Paper of 3 Hours: 15 Marks****Practical Record (File): 08 Marks****Viva: 07 Marks****Objectives:**

Geography is an amalgam of physical as well as social sciences and as such it is necessary for the students to go through laboratory exercises particularly to show directions and bearings and different methods of representing relief. Knowledge of directions and bearings is essential and an introduction to weather maps is also required.

SECTION-A

Direction and Bearings: Plotting of a course, true north, magnetic north, finding true north with the pole star, a watch and a rod; bearing and its conversion.

Enlargement and Reduction: Graphic methods—square and triangle; instrumental methods—Pantographic, Xeroxing photographic.

SECTION-B**Weather Maps:**

General Introduction to the study of weather maps, the scheme of weather symbols including Beaufort's scale employed in Indian daily weather maps; weather in India: summer season (period of summer monsoon), winter season, forecasting of weather through the study of weather maps and recent advances in weather forecasting.

Note:

1. A compulsory question containing 10 short answer type questions will be set covering the whole syllabus. The students will attempt 6 short answer type questions in about 25–30 words each. Each short answer type question will carry ½ mark (Total 3 marks).
2. The whole syllabus will be divided into 2 units. Eight questions will be set out of the whole syllabus, four from each unit. The students will be required to attempt two questions from each unit. Each question will carry 3 marks. These will be in addition to the compulsory question at serial number one. (Total 12 marks)
3. Simple calculators are allowed.
4. Evaluation of Practical record will be done at the time of viva-voce examination. A minimum of 12 sheets are to be prepared by the students in each semester.
5. In case the candidate has applied for the improvement, he/she should be required to make a fresh practical note book.
6. For practical classes, the number of students in one group shall not exceed fifteen.

Recommended Books:-**Essential Readings:-**

1. Khullar, D.R.: *Essentials of Practical Geography*, New Academic Publishing Co., Mai Hiran Gate, Jalandhar, 2016.
2. Singh, Gopal: *Mapwork and Practical Geography*, Vikas Publishing House, Pvt. Ltd., New Delhi, 1995.
3. Singh L.R. & Singh, Raghunandan : *Mapwork and Practical Geography*, Central Book Depot, Allahabad, 1993
4. Phyllis Dink: *Mapwork*, Atma Ram & Sons, 1991.

Further Readings:-

1. Mishra, R.P. & Ramesh, A.: *Fundamental of Cartography*, Concept Publishing Co., New Delhi, 1989.
2. Monkhouse, F.J. and Wilkinson, H.R.: *Maps and Diagrams*, Methuen & Co., London, Third Edition, 1976.
3. Robinson, A.H. & Randall, D. Sale: *Elements of Cartography*, John Wiley & Sons, New York, (Sixth Edition), 1995.

SEMESTER-II**PAPER-V & VI, STREAM-3
POLITICAL SCIENCE****MODERN POLITICAL THEORY****Time: 3 Hours****Max. Marks: 100****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

1. Political System: Meaning, Characteristics and Functions.
2. Political Culture: Meaning, Characteristics and Types.
3. Political Socialisation: Meaning, Characteristics and Agencies.

SECTION-B

1. Rights and Duties: Meaning, Types and Relationship between the Two.
2. Universal Declaration of Human Rights.
3. Environmental Protection: Issue and Efforts.

SECTION-C

1. Liberty: Meaning, Types and its Safeguards.
2. Equality: Meaning, Types and Relationship between Liberty and Equality.
3. Justice: Meaning and its various Dimensions.

SECTION-D

1. Democracy: Meaning, Characteristics and Types.
2. Theories of Democracy: Liberal, Marxian and Elitist Theory.

Recommended Books:-

1. J. C. Johari, *Principles of Political Science*, Sterling Publishers, New Delhi.
2. S.P. Verma, *Political Theory*, Geetanjali Publishing House, New Delhi.
3. A.C. Kapur, *Principles of Political Science*, S. Chand & Company, New Delhi.
4. E. Ashirvatham, *Political Theory*, S. Chand & Company, New Delhi.

5. M.P. Jain, *Political Theory*, Authors Guild Publication, Delhi, (Punjabi & Hindi).
6. David Easton, *The Political System*, Scientific Book Agency, Calcutta.
7. D.C. Bhattacharya, *Political Theory*, Vijay Publishing House, Calcutta.
8. O.P. Gauba, *An Introduction to Political Theory*, Macmillan Indian Ltd., New Delhi.
9. Satish Kumar Sharma, *Adhunik Rajnitik Vishleshan*, Publication Bureau, Punjabi University, Patiala.
10. John–Hoffman and Paul Graham, *Introduction to Political Theory*, New Delhi, Pearsons, 2006.
11. Andrew Heywood, *An Introduction to Political Theory*, New Delhi, Palgrave Publications.
12. Aeon J. Skoble and Tibor R. Machan, *Political Philosophy*, 1st Edition, New Delhi, Pearson 2007.
13. Catriona Mckinnon, *Issues in Political Theory*, Oxford, 2009
14. R. Bhargava, *Political Theory : An Introduction* , Pearson, 2012
15. N.D Arora, *Introduction to Political Theory*, Har Anand, 2012
16. R.C Vermani, *Understanding Political Theory: Concepts and Issues*, Gitanjali, 2011
17. Anthony H. Birch, *The Concepts and Theories of Modern Democracy*, Routlege, 2013

SEMESTER-II**PAPER-V & VI, STREAM-3
ECONOMICS****MACROECONOMICS****Time: 3 Hours****Max. Marks: 100****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

Distinction between Micro and Macro Economics; Determination of Income and Employment: Classical and Keynesian models; Say's Law of Market and aggregate demand and aggregate supply.

Consumption functions; average (short-run and long run) and marginal propensity to consume; static and dynamic multipliers.

SECTION-B

Investment: Meaning, Demand schedules and factors affecting investment decision. Marginal Efficiency of Capital. Accelerator, multiplier-accelerator interaction.

Trade cycles-meaning, characteristics and phases. Samuelson and Hicks Models of trade cycles.

SECTION-C

Money: Its functions and role. Money and Capital Markets (Introductory). Quantity Theory of Money. Fisher's and Cambridge's equations. Liquidity preference theory.

Banking: Definitions of banks. Credit creation and credit control.

SECTION-D

Inflation: Concept, Causes and cures. Inflation-unemployment Trade-off (only Phillips' contribution).

Macroeconomic Policies: Fiscal policy – meaning, objectives and instruments. Monetary policy – meaning, objectives and instruments.

Recommended Texts:-

1. Shapiro, E. Macroeconomic Analysis, Harcourt, Brach and World, New York, 1978.
2. Dernaburg, T.F. and MC Dougall D.M., Macroeconomics: the Measurement, Analysis and Control of Aggregate Economic Activity, McGraw-Hill, Kogakusha, Tokyo, 1972.
3. Gupta, S.B. Monetary Economics: Institutions, Theory and Policy, S. Chand, New Delhi, 2000.

SEMESTER-II**PAPER-IV, STREAM-4
PHILOSOPHY****ETHICS: WESTERN AND INDIAN****Time: 3 Hours****Max. Marks: 100****Lectures to be delivered: 6 per week****Pass Marks 35 %****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

1. An Introduction to Ethics: Definition, Nature, Scope and Utility
2. Relation of Ethics with Religion and Science

SECTION-B

1. Plato: Virtues.
2. Kant: Categorical Imperative, Good Will.
3. Utilitarianism: Meaning, Definition, Views of Bentham and J.S.Mill.

SECTION-C

1. Bhagavad Gita: Nishkama Karma.
2. Guru Granth Sahib: Truth, Contentment and Hukam.

SECTION-D

1. Buddhism: Four Noble Truths and Eight-Fold Path
2. Yoga Philosophy: Ashtangyoga
3. Jainism: Tri Ratna and Kaivalya.

Recommended Readings:-**English Books:-**

1. Avtar Singh, *Ethics of the Sikhs*, Punjabi University, Patiala, 1970.
2. Balbir Singh, *Principles of Ethics*, S. Nagin, Jalandhar, 1978.
3. Duignan, Brian, *The History of Western Ethics*, Britannica Educational Pub., New York, 2011.
4. Gupta, S.N. Das, *A History of Indian Philosophy*, Vol. II, George Allen and Unwin, London, 1971.
5. Intyre, Alasdair C Mac, *A Short History of Ethics*, Routledge, 1998.

6. Joshi, H.M, *Traditional and Contemporary Ethics; Western and Indian*, Bharatiya Vidya Prakashan, Delhi, 2000.
7. Kaveeshwar G.W., *The Ethics of the Gita*, Motilal Banarsidass, Delhi, 1971.
8. Mackenzie, J.S., *Manual of Ethics*, Hinds, Noble & Eldridge, New York, 2005.
9. Norman Richard, *The Moral Philosophers: An Introduction to Ethics*, Oxford University Press, Oxford, 1998.
10. Tiwari, Kedar Nath, *Classical Indian Ethical Thoughts: A Philosophical Study of Hindu, Jaina and Buddha Morals*, Motilal Banarsidass, Delhi, 1998.
11. Vasu, Srisa Chandra, *An Introduction to the Yoga Philosophy*, AMS Press, New York, 1974.
12. William Lillies, *Introduction to Ethics*, Methuen, London, 2001.

Punjabi Books:-

1. ਹਉਰਾ, ਕੁਲਦੀਪ ਸਿੰਘ, *ਸਿੱਖ ਨੈਤਿਕਤਾ ਦੀ ਰੂਪ ਰੇਖਾ*, ਸਿਮਰ ਸਾਹਿਤ ਸਦਨ, ਅੰਮ੍ਰਿਤਸਰ।
2. ਗੁਪਤਾ, ਸ਼ਾਂਤੀ ਨਾਥ, *ਭਾਰਤੀ ਦਰਸ਼ਨ*, ਪੰਜਾਬ ਸਟੇਟ ਯੂਨੀਵਰਸਿਟੀ, ਚੰਡੀਗੜ੍ਹ, 1994.
3. ਚੰਦ, ਰਣਧੀਰ ਸਿੰਘ, *ਯੋਗ ਦਰਸ਼ਨ*, ਪੰਜਾਬੀ ਰਾਈਟਰਜ਼ ਕੋਆਪਰੇਟਿਵ ਸੋਸਾਇਟੀ, ਲੁਧਿਆਣਾ।
4. ਨਿਰਾਕਾਰੀ, ਆਰ.ਡੀ., *ਭਾਰਤੀ ਦਰਸ਼ਨ*, ਪੰਜਾਬ ਸਟੇਟ ਯੂਨੀਵਰਸਿਟੀ, ਚੰਡੀਗੜ੍ਹ, 1994.
5. ਵਜ਼ੀਰ ਸਿੰਘ (ਡਾ.) ਸਿੱਖ ਦਰਸ਼ਨ ਧਾਰਾ, ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ

Hindi Books:-

1. ਵਰਮਾ, ਵੇਦ ਪ੍ਰਕਾਸ਼, *ਨੀਤੀ ਸ਼ਾਸਤਰ*, ਅਲਾਇਡ ਪਬਲਿਸ਼ਰਜ਼, ਦਿੱਲੀ, 1977.

SEMESTER-II

PAPER-IV, STREAM-4
PSYCHOLOGYBASIC PSYCHOLOGICAL PROCESSES-II
(THEORY)

Time: 3 hours

Max. Marks: 100
Theory Marks: 75
Practical Marks: 25Pass Marks: 35% of the subject
(Theory and Practical Separately)**Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

Neuron (Structure and Functions), Synapse and Types of Synapse, Resting and Action Potentials, Nervous System (Central, Peripheral and Autonomic), Glands (Endocrine and Exocrine)

SECTION-B

Motivation: Concept and Nature of Motivation, Types of Motivation, Needs, Drives and Incentives, Conflicts and Frustration (Concept, Nature and Types}

Emotions: Concept and Nature of Emotions, Types of Emotions, Theories of Emotions (James Lange, Cannon Bard and Lindzey), Physiological Correlates of Emotions

SECTION-C

Personality: Concept of Personality, Characteristics of Personality, Theories of Personality (Adler, Jung, Allport, Eysenck and Cattell), Techniques of Assessment (Psychometric and Projective)

SECTION-D

Measures of Variability: Meaning and Characteristics of Variability, Range, Quartile Deviation, Average Deviation and Standard Deviation with Merits and Demerits

References:-

1. Benjamin, Jr. L.T., Hopkings, J.R. & Nation, J.R. (1987). *Psychology*. Mcmillan Publishing Company, New York.
2. Chaplin, J.R. & Kraiwick, T.S. (1985). *Systems and Theories of Psychology*. Holt, Rinehart and Winston, Inc., New York.
3. Crooks, R.L. & Strin, J. (1988). *Psychology; Sciences: Behaviour and Life*. Holt Rinehart and Winston, Inc., New York.
4. Morgan, G.T., King, P.A., Weisz, T.R. & Schopler, J. (1999). *Introduction to Psychology*. Mcgraw Hill Book Co., New York.
5. Baron, R.A. (1996). *Psychology*. New Delhi: Prentice Hall of India.
6. Aron (2007). *Statistics for Psychology*. Pearson Education, New Delhi.
7. Coon, D.L., & Mitterer, J.O. (2007). *Introduction to Psychology; Gateways to Mind and Behaviour*. Thomson Wadsworth.
8. Solso, R.L. (2007). *Cognitive Psychology*. Pearson Education, New Delhi.
9. Hall, S.S. & Lindzey (1969). *Theories of Personality*. Wiley Eastern Ltd. New Delhi.
10. Pinel, J.P.J. (2007). *Biopsychology*. Pearson Education, New Delhi.

SEMESTER-II**PAPER-IV, STREAM-4
PSYCHOLOGY****(PRACTICAL)****Marks: 25****Instructions for the Practical Examination:**

Students are supposed to perform five practicals out of 6 mentioned in the syllabus. Practical examination will be of 3 hours duration. External examiner will conduct the practical examination. The students will perform one practical in the exam carrying 25 marks. Evaluation of the practical would be done on the basis of write-up of file book (5 Marks), performance and viva-voce (20 Marks) relating to the practicals. In case students have not completed 5 practicals, the examiner will deduct marks at the rate of 5 for each left practical out of total evaluation of the student. No reappear will be allowed in the practical examination. Fail in the practical will be considered fail overall in the subject.

Five Practical have to be performed out of the following:

1. Effect of Knowledge of Results on Performance.
2. Level of Aspiration.
3. Projective Techniques-Completion Test.
4. Personality Inventory
5. Zeigarnick-effect
6. Measurement of Emotions

SEMESTER-II

PAPER-IV, STREAM-4
SOCIOLOGY
FUNDAMENTALS OF SOCIOLOGY-II

Time: 3 Hours

Max. Marks: 100

Instructions for the Paper Setters:-

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

- c) **Social Structure:** Meaning, Characteristics, Elements- Norms and Values, Status and Roles.
- d) **Culture:** Meaning, Elements and Cultural lag.

SECTION-B

- c) **Social Stratification:** Meaning and Forms.
- d) **Social Mobility:** Meaning, Types and Causes.

SECTION-C

- c) **Social Control:** Meaning and Significance.
- d) **Agencies of Social Control- Formal:** Law. **Informal:** Folkways and Mores.

SECTION-D

- a) **Social Disorganization:** Meaning and Forms: Corruption, Crime and Terrorism.

Recommended Readings:-

1. Ahuja, Ram. 1993, *Indian Social System*. Jaipur: Rawat Publications.
2. Abraham, M. Francis. 2006, *Contemporary Sociology*. New Delhi: Oxford University.
3. Bottomore, T.B.S. 1972, *Sociology*. Punjabi Translation by Parkash Singh Jammu, Publication Bureau, Punjabi University, Patiala.
4. Giddens, Anthony. 2006, *Sociology*. Cambridge: Polity Press.
5. Gisbert, Pascual. 1969, *Fundamentals of Sociology*. Bombay: Orient Longmans.
6. Haralambos, Michael and Robin Heald. 2013, *Sociology: Themes and Perspectives*. New Delhi: Oxford University Press.
7. Jayaram, N. 1988, *Introductory Sociology*. Madras: Macmillan.
8. Johnson, H.M. 1995, *Sociology: A Systematic Introduction*. New Delhi: Allied Publishers.
9. Kapila, S. 1989, *A Text Book of Sociology*, Part-I & II. Jalandhar: New Academic House.
10. Kapila, S. 2001, *Fundamentals of Sociology*, Vol. I. Panchkula, Kapila Publishers.
11. Macionis, John.J and Ken Plumer. 2014, *Sociology: A Global Introduction*. London: Pearson.
12. McGee, Reece et al. 1977, *Sociology-An Introduction*. Hindale: Reinehart and Winston.
13. Oommen, T.K and C.N Venugopal. 2010, *Sociology*. Lucknow: Eastern Book Company.

SEMESTER-II**EPC II****COURSE TITLE: UNDERSTANDING THE SELF****Total Marks: 50****Internal marks: 25****External marks: 25**

Course Objectives: After Completion of Course, the Students will be able to:

- To help student teachers discover and develop open-mindedness, the attitude of a self-motivated learner, having self-knowledge and self-restraint.
- To help student teachers develop the capacity for sensitivity, sound communication skills and ways to establish peace and harmony.
- To develop the capacity to facilitate personal growth and social skills in their own students

Curriculum Transaction: In these workshops/ discourses sharing of case studies/ watching movies or documentaries, brain storming exercises, training session, physical excursions, meditations etc. should be encouraged. Students will write reflective journals and give feedback to each session and maintain record.

SECTION-A: EXPLORING THE AIM OF LIFE**Objectives**

- To enable students to develop a vision of life for themselves.
- To encourage students to give conscious direction to their lives to take responsibility for their actions.
- To develop a holistic understanding of the human self and personality.

Workshop Themes

1. Understanding different dimensions of self and personality and way in which they influence the dynamics of identity formation, values and direction of life.
2. Philosophy of Yoga and its role in well-being.
3. Developing positivity, self-esteem and emotional integration.
4. Writing a self-reflective journal

SECTION-B: DEVELOPING SENSITIVITY**Objectives**

- To enable students to examine and challenge the stereotypical attitudes and prejudices that influence identity formation and the process of individuation.
- To encourage students to develop the capacity for perspective taking and appreciating different points of view.
- To develop sensitivity towards needs of children by connecting with one's own childhood experiences

Workshop Themes

1. Defining consciously one's own values towards self and society and develop a capacity to understand and appreciate divergent points of view.
2. Developing the capacity for empathic listening and communication skills.
3. Understanding group dynamics and communication
4. Exploring and practicing ways to facilitate personal growth and develop social skills in students while teaching

SEMESTER-II**Evaluation scheme****a) Internal****Attendance****05 Marks****Assignments on the following**

Writing of reflective journal

Participation in the workshops

20 Marks**b) External****25 Marks**

1. Evaluation on the basis of reflective journal.
2. Evaluation of PPT Presentation on the report of yoga and its practices on the development of well being and viva will be done by the external.

Note:-

- For internal evaluation a committee of three teachers (concerned teacher, HOD and a senior faculty nominated by the principal) will be constituted at the institution level and coordinated by the principal of the concerned college.
- The committee will assess the performance of the students and evaluate the records. The award list will be forwarded to the university by the principal of the institution.
- The record in the form of files, CD, pendrive be retained for at least three years in the institution.
- In case of any aberration or any complaint the university / external agency is authorized to review the internal awards.

ESSENTIAL READINGS:-

- **Antoine de Saint-Exupery.** (1977). *The Little Prince*. London, UK:
- **Wordsworth** Edition Translated by Irene Testot-ferry (available in Hindi).
- **Dalal, A.S. (2001).** Our Many Selves. Pondicherry, India: *Sri Aurobindo Ashram*.
- **Frankl, V. (1946).** *Man's Search for Meaning*. New York: Pocket Books.
- **Joshi, K. (ed) (2005).** *The Aim of Life*. Auroville, India: Saiier.
- **Krishnamurti, J. (1953).** *Education and the Significance of Life*, Ojai,
- **California, USA:** Krishnamurti Foundation Trust.
- **NCERT, (2006).** *Education for Peace, Position Paper*. New Delhi: NCERT.
- **Walk with Me: A Guide for Inspiring Citizenship Action.** (2006). New Delhi: Pravah Pub.

Readings for Discussion:-

- **Bach, R. (1994).** Jonathan Livingston Seagull, London, UK: HarperCollins Publications.
- **Chatterjee, D. (1998).** *Leading Consciously*, MA, USA: Butterworth-

SEMESTER-II**PAPER-VII: DRUG ABUSE: PROBLEM, MANAGEMENT AND PREVENTION
(COMPULSORY PAPER)****DRUG ABUSE: MANAGEMENT AND PREVENTION****Time: 3 Hours****Max. Marks: 50****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A**Prevention of Drug abuse:**

Role of family: Parent child relationship, Family support, Supervision, Shaping values, Active Scrutiny.

SECTION-B

School: Counselling, Teacher as role-model. Parent-teacher-Health Professional Coordination, Random testing on students.

SECTION-C**Controlling Drug Abuse:**

Media: Restraint on advertisements of drugs, advertisements on bad effects of drugs, Publicity and media, Campaigns against drug abuse, Educational and awareness program

SECTION-D

Legislation: NDPs act, Statutory warnings, Policing of Borders, Checking Supply/Smuggling of Drugs, Strict enforcement of laws, Time bound trials.

References:-

1. Ahuja, Ram (2003), *Social Problems in India*, Rawat Publication, Jaipur.
2. Extent, Pattern and Trend of Drug Use in India, Ministry of Social Justice and Empowerment, Government of India, 2004.
3. Inciardi, J.A. 1981. *The Drug Crime Connection*. Beverly Hills: Sage Publications.
4. Kapoor. T. (1985) *Drug epidemic among Indian Youth*, New Delhi: Mittal Pub.
5. Kessel, Neil and Henry Walton. 1982, *Alcoholism. Harmond Worth*: Penguin Books.
6. Modi, Ishwar and Modi, Shalini (1997) *Drugs: Addiction and Prevention*, Jaipur: Rawat Publication.

7. National Household Survey of Alcohol and Drug abuse. (2003) New Delhi, Clinical Epidemiological Unit, All India Institute of Medical Sciences, 2004.
8. Ross Coomber and Others. 2013, *Key Concept in Drugs and Society*. New Delhi: Sage Publications.
9. Sain, Bhim 1991, *Drug Addiction Alcoholism, Smoking obscenity* New Delhi: Mittal Publications.
10. Sandhu, Ranvinder Singh, 2009, *Drug Addiction in Punjab: A Sociological Study*. Amritsar: Guru Nanak Dev University.
11. Singh, Chandra Paul 2000. *Alcohol and Dependence among Industrial Workers*: Delhi: Shipra.
12. Sussman, S and Ames, S.L. (2008). *Drug Abuse: Concepts, Prevention and Cessation*, Cambridge University Press.
13. Verma, P.S. 2017, "*Punjab's Drug Problem: Contours and Characteristics*", Economic and Political Weekly, Vol. LII, No. 3, P.P. 40-43.
14. World Drug Report 2016, United Nations office of Drug and Crime.
15. World Drug Report 2017, United Nations office of Drug and Crime.

SEMESTER–III**PAPER: I
UNDERSTANDING EDUCATION AND ITS PERSPECTIVES****Credits: 4
Time: 3 Hrs.****Total Marks: 100
Terminal: 70
Sessional Work: 30****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

Note: The paper setter may set each question in 2/4 parts (with split up of marks totalling to 14) to ensure maximum representation of the syllabus.

Course Objectives:

After the completion of the course, the student teacher will be able to:

- Develop an insight into the fundamentals of Education.
- Understand the interdisciplinary nature of Education.
- Reflect upon the educational thoughts of Indian and Western thinkers.
- Critically examine the issues and concerns of education in the socio-cultural contexts of India.
- Understand the role of different agencies in promoting socialization.
- Correlate School with Societal needs.

SECTION–A**BASES OF EDUCATION**

- a) Education: Concept, aims and functions, difference with related terms (Training, Instruction, Indoctrination and Teaching).
- b) Types and Agencies of Education
- c) Education as a discipline and its interdisciplinary nature.

SECTION–B**INDIAN AND WESTERN PERSPECTIVE OF EDUCATION**

- a) Indian Perspective of Education as viewed by Mahatma Gandhi, Swami Vivekananda, JiddaKrishnamurthy;
- b) WesternPerspective of Education as viewed by Plato, John Dewey, Montessori

SEMESTER-III**SECTION-C****SOCIO-CULTURAL CONTEXT**

- a) Education as an instrument of social change; Education in relation to Social Equity.
- b) Impact of Socio-cultural trends on the aims and organization of education.
- c) Inculcation of Value based education in Society.

SECTION-D**SOCIALIZATION AND SCHOOL**

- a) Socialisation: Concept and Process , Role of school and Family
- b) Social mobility and Social Stratification
- c) School as a sub system

SESSIONAL WORK

Performance in unit tests and house examination 10 Marks

Files to be prepared and submitted for evaluation 20 Marks

Assignments on the following (any two)

- Comparison of educational contribution of any two thinkers.
- Rationale of including study of value education in school curriculum
- Frame analytical model representing education as a sub system

References:-

- Acker, S. (1994). *Feminist theory and the study of gender and education; In S.Acker, Gendered Education: Sociological Reflections on women, Teaching and Feminism*, Buckingham: Open University Press.
- Barks, O. (1971). *Sociology of Education* Ed. 2 Landon: Batsford
- Crapo, H. (1970). *Family, Class and education*. London: Longman
- Collins, R. (1979). *The Credential Society: an Historical Sociology of Education and Stratification*. New York: Academic Press.
- Dash, B.N. (2004). *Theories of Education & Education in the Emerging Indian Society*. New Delhi: Dominant Publishers and Distributors.
- David, M. E. (1980). *State the Family and education*, London: Routledge and kegan Paul Desai Lips.
- Gupta, D. (1991). *Social Stratification*. New Delhi: Oxford University Press.
- Hilary, M. (1989). *Sex and Gender an Introduction*, California: Mountain view, Mayfield Publishing Company.
- Kumar, K. (1991). *Political agenda of Education*, New Delhi: Sage.
- Mathur, S. S. (2015). *A sociological approach to Indian education*, Vinod Pub, Agra.
- McKeown, R. (2002). *Education for sustainable Development Toolkit*. University of Tennessee, Knoxville, TN.
- Tyler, W. (1977). *The sociology of educational inequality*, London.
- Weiner, M. (1991). *The State and the Child in India: Child Labour and Education Policy in Comparative Perspective*. Princeton: Princeton University Press.

SEMESTER–III**PAPER–II****GENDER, SCHOOL AND SOCIETY****Credits 2****Time 1: 30 hrs****M. Marks: 50****Terminal: 35****Sessional: 15****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

Course Objectives:

After the completion of the course, the student teacher will be able to:

- Develop an insight into the different gender issues and concerns in the society.
- Understand various Constitutional provisions related to gender.
- Identify various efforts taken by different agencies to tackle gender issues in India.
- Perform his/her role for minimizing gender inequalities in the society.

SECTION–A**GENDER, ISSUES AND CONCERNS**

- a) Gender: Concept ,Issues and Concerns in terms of Equity and Equality

SECTION–B

- a)Constitutional Provisions and policy interventions (school education) in the context to gender.
- b) Construct of Gender in National Curriculum Framework- 2005

SECTION–C

- a) Sensitisation towards gender equality: Role of Family, and Society.
- b) Role of Education sector (Curricular and Co- curricular activities) for promoting genderequalities (male , female & transgender)

SECTION–D

- a) Initiatives of Government and Non—Government organisation in dealing with gender issues
- b) Concept of LGBT – latest developments.

SEMESTER–III**Sessional Work****Performance in unit tests and house examination 5 Marks****Files to be prepared and submitted for evaluation 10 Marks****Assignments on the following**

Organizing discussion/ debate/ seminar on the following:

- Gender stereotyping
- Gender Equity and Equality (Report to be filed)

A critical study of schemes such as KGBV, NPEGEL, NanhiChaa

References

- Chanana, K. (1988). *Socialisation, Education and Women*. Nehru memorial Museum and Library: New Delhi.
- Kakkar, S. (1978). *Indian Childhood: Cultural Ideas, And Social Reality*. New Delhi: Oxford.
- Sandra, L. B. (1987). *Gender Schema Theory and its Implications for Child Development: raising gender a schematic children in a gender schematic society*, in M.R. Walsh, (Ed). *The Psychology of Women*. Harvard University Press Cambridge, 206-226.
- Kakkar S. (1991). *The Inner World: A Psycho-analytic study of childhood and society in India*. Delhi: Oxford University Press.
- Kumar, K. (1991). *Political agenda of Education*, New Delhi: Sage.
- Unterhalter, E. (2006). *Measuring Gender Inequality in south Asia*, London, UNICEF
- Nambissan, G. (2010). *Exclusion and Discrimination in Schools: Experiences of Dalit Children*; Working paper series, 1(1), Indian Institute of Dalit Studies and UNICEF
- Michael, G. P. (2011). *Gender, Sexuality and body politics in modern Asia*, Ann Arbor MI: Association for Asian studies.

SEMESTER–III**PAPER–III: ENGLISH (COMPULSORY)****Time: 3 Hours****Max. Marks: 50****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

Important Note: The textbook *Making Connections* (3rd edition) is significantly different from its 2nd edition. The third edition (by Kenneth J Pakenham, Jo McEntire, Jessica Williams) is to be followed for this course.

Texts Prescribed:

1. *Making Connections* by Kenneth J. Pakenham, Jo McEntire, Jessica Williams, 3rd Edition. CUP.
2. *Moments in Time: An Anthology of Poems*, GNDU, Amritsar.
3. *English Grammar in Use* (Fourth Edition) by Raymond Murphy, CUP

Syllabus is divided into four sections as mentioned below:

Section A- *English Grammar in Use* (Fourth Edition) by Raymond Murphy, CUP: Units 98-130

Section B – Essay writing and *English Grammar in Use*: Units 131-145

Section C- *Moments in Time*: Poems at Sr. No. 1-6

Section D- *Making Connections* by Kenneth J. Pakenham, 3rd Edn. CUP: Unit-I (Global Health) and Unit-II (Multicultural Societies)

SEMESTER-III

PAPER-IV: PUNJABI (COMPULSORY) ਪੰਜਾਬੀ (ਲਾਜ਼ਮੀ)

ਸਮਾਂ ਤਿੰਨ ਘੰਟੇ

ਕੁਲ ਅੰਕ : 50

ਅੰਕ-ਵੰਡ ਅਤੇ ਪਰੀਖਿਅਕ ਲਈ ਹਦਾਇਤਾਂ

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੇ ਚਾਰ ਭਾਗ ਹੋਣਗੇ। ਹਰ ਭਾਗ ਵਿੱਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
2. ਵਿਦਿਆਰਥੀ ਨੇ ਕੁੱਲ ਪੰਜ ਪ੍ਰਸ਼ਨ ਕਰਨੇ ਹਨ। ਹਰ ਭਾਗ ਵਿੱਚੋਂ ਇੱਕ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੈ। ਪੰਜਵਾਂ ਪ੍ਰਸ਼ਨ ਕਿਸੇ ਵੀ ਭਾਗ ਵਿੱਚੋਂ ਕੀਤਾ ਜਾ ਸਕਦਾ ਹੈ।
3. ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦੇ ਬਰਾਬਰ ਅੰਕ ਹਨ।
4. ਪੇਪਰ ਸੈੱਟ ਕਰਨ ਵਾਲਾ ਜੇਕਰ ਚਾਹੇ ਤਾਂ ਪ੍ਰਸ਼ਨਾਂ ਦੀ ਵੰਡ ਅੱਗੋਂ ਵੱਧ ਤੋਂ ਵੱਧ ਚਾਰ ਉਪ-ਪ੍ਰਸ਼ਨਾਂ ਵਿੱਚ ਕਰ ਸਕਦਾ ਹੈ।

ਪਾਠ-ਕ੍ਰਮ ਅਤੇ ਪਾਠ-ਪੁਸਤਕਾਂ

ਸੈਕਸ਼ਨ - ਏ

ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਵਾਰਤਕ (ਸੰਪਾ. ਡਾ. ਗੁਰਬਚਨ ਸਿੰਘ ਤਾਲਿਬ),
ਪੰਜਾਬੀ ਸਾਹਿਤ ਪ੍ਰਕਾਸ਼ਨ, ਅੰਮ੍ਰਿਤਸਰ।
(ਵਿਸ਼ਾ-ਵਸਤੂ/ਸਾਰ/ਕਲਾ ਪੱਖ)

ਸੈਕਸ਼ਨ - ਬੀ

ਚੋਣਵੇਂ ਪੰਜਾਬੀ ਇਕਾਂਗੀ (ਇਕਾਂਗੀ ਸੰਗ੍ਰਹਿ)
ਸੰਪਾ. ਡਾ. ਰਮਿੰਦਰ ਕੌਰ, ਕਸਤੂਰੀ ਐਂਡ ਸੰਨਜ਼, ਅੰਮ੍ਰਿਤਸਰ।

- | | |
|--------------------|--------------|
| 1. ਸੁਹਾਗ | ਆਈ.ਸੀ.ਨੰਦਾ |
| 2. ਨਵਾਂ ਚਾਨਣ | ਹਰਚਰਨ ਸਿੰਘ |
| 3. ਅੰਨ੍ਹੇ ਨਿਸ਼ਾਨਚੀ | ਅਜਮੇਰ ਔਲਖ |
| 4. ਅਰਮਾਨ | ਜਤਿੰਦਰ ਬਰਾੜ |
| 5. ਚਾਬੀਆਂ | ਆਤਮਜੀਤ ਸਿੰਘ |
| 6. ਮਿੱਟੀ ਦਾ ਬਾਵਾ | ਪਾਲੀ ਭੁਪਿੰਦਰ |
| 7. ਸੰਧਰਾਂ | ਕੇਵਲ ਧਾਲੀਵਾਲ |

ਵਿਸ਼ਾ ਵਸਤੂ/ਪਾਤਰ ਚਿਤਰਨ/ਰੰਗ ਮੰਚ ਦੇ ਪੱਖ ਤੋਂ

ਸੈਕਸ਼ਨ - ਸੀ

- (ੳ) ਸੰਖੇਪ ਰਚਨਾ (ਪ੍ਰੈਸੀ)
(ਅ) ਦਿੱਤੇ ਪੈਰ੍ਹੇ ਵਿੱਚੋਂ ਅਸ਼ੁੱਧ ਸ਼ਬਦ ਜੋੜਾਂ ਨੂੰ ਸ਼ੁੱਧ ਕਰਨਾ

ਸੈਕਸ਼ਨ - ਡੀ

ਮੂਲ ਵਿਆਕਰਨਕ ਇਕਾਈਆਂ : ਪਰਿਭਾਸ਼ਾ ਅਤੇ ਵੰਨਗੀਆਂ
(ਭਾਵੇਂ, ਸ਼ਬਦ, ਵਾਕੰਸ਼, ਉਪ-ਵਾਕ ਅਤੇ ਵਾਕ)

SEMESTER-III***Mudhli Punjabi****ਮੁੱਢਲੀ ਪੰਜਾਬੀ****(In lieu of Compulsory Punjabi)****ਪਾਠ-ਕ੍ਰਮ****ਸਮਾਂ: ਤਿੰਨ ਘੰਟੇ****ਕੁਲ ਅੰਕ: 50****ਅੰਕ-ਵੰਡ ਅਤੇ ਪਰੀਖਿਅਕ ਲਈ ਹਦਾਇਤਾਂ**

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੇ ਚਾਰ ਭਾਗ ਹੋਣਗੇ। ਹਰ ਭਾਗ ਵਿੱਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
2. ਵਿਦਿਆਰਥੀ ਨੇ ਕੁੱਲ ਪੰਜ ਪ੍ਰਸ਼ਨ ਕਰਨੇ ਹਨ। ਹਰ ਭਾਗ ਵਿੱਚੋਂ ਇਕ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੈ। ਪੰਜਵਾਂ ਪ੍ਰਸ਼ਨ ਕਿਸੇ ਵੀ ਭਾਗ ਵਿੱਚੋਂ ਕੀਤਾ ਜਾ ਸਕਦਾ ਹੈ।
3. ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦੇ ਬਰਾਬਰ ਅੰਕ ਹਨ।
4. ਪੇਪਰ ਸੈੱਟ ਕਰਨ ਵਾਲਾ ਜੇਕਰ ਚਾਹੇ ਤਾਂ ਪ੍ਰਸ਼ਨਾਂ ਦੀ ਵੰਡ ਅੱਗੋਂ ਵੱਧ ਤੋਂ ਵੱਧ ਚਾਰ ਉਪ-ਪ੍ਰਸ਼ਨਾਂ ਵਿੱਚ ਕਰ ਸਕਦਾ ਹੈ।

ਸੈਕਸ਼ਨ-ਏ

ਵਿਆਕਰਣਕ ਇਕਾਈਆਂ ਦੀ ਪਛਾਣ ਅਤੇ ਵਰਤੋਂ; ਵਾਕੰਸ਼, ਉਪਵਾਕ ਅਤੇ ਵਾਕ

ਸੈਕਸ਼ਨ-ਬੀ

ਪੈਰਾ ਰਚਨਾ, ਚਿੱਠੀ ਪੱਤਰ

ਸੈਕਸ਼ਨ-ਸੀ

ਅਖਾਣ ਅਤੇ ਮੁਹਾਵਰੇ

ਸੈਕਸ਼ਨ-ਡੀਪੈਰਾ ਅਧਾਰਿਤ ਪ੍ਰਸ਼ਨ
ਸੰਖੇਪ ਰਚਨਾ

SEMESTER-III

Punjab History & Culture (From 1000 to 1605 A. D)
(Special Paper in lieu of Punjabi compulsory)
(For those students who are not domicile of Punjab)

Time: 3 Hours**Max. Marks: 50****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

1. Society and Culture of Punjab during the Turko-Afghan rule.
2. The Punjab under the Mughals

SECTION-B

3. Bhakti movement and its impact on Society of Punjab
4. Sufism in Punjab with special reference to Baba Farid.

SECTION-C

5. Guru Nanak-Life and travels
6. Teachings of Guru Nanak, Concept of Sangat, Pangat and dharmsal.

SECTION-D

7. Contribution of Guru Angad Dev, Guru Amar Das and Guru Ram Das.
8. Compilation of Adi Granth and martyrdom of Guru Arjun Dev

Suggested Readings:-

1. Chopra, P.N., Puri, B.N., & Das, M.N.(1974). *A Social, Cultural & Economic History of India*, Vol. II. New Delhi: Macmillan India.
2. Grewal, J.S. (1994). *The Sikhs of the Punjab*, Cambridge University Press, New Delhi.
3. Singh, Fauja (1972). *A History of the Sikhs*, Vol. II, I. Patiala: Punjabi University.
4. Singh, Kushwant (2011). *A History of the Sikhs- Vol. I (1469-1839)*. New Delhi: Oxford University Press.
5. Singh, Kirpal (1990). *History and Culture of the Punjab-Part II (Medieval Period)*. Patiala: Publication Bureau, Punjabi University.

SEMESTER-III**PAPER- V, VI & VII, STREAM-1
ENGLISH (ELECTIVE)****Time: 3 Hours****Max. Marks: 100****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

Books Prescribed:-

1. *Animal Farm* by George Orwell
2. *Fresh Showers*, G.N.D.U. Amritsar
3. *New Directions* (Part 1-3)
4. *Better Pronunciation of English* by J.D. O'Connor

Course Contents:-

1. *Animal Farm*—Complete Text
2. *Fresh Showers*
The following poems are DELETED:
(i) Alexander's Feast, (ii) Evelyn Hope, (iii) Adam's Curse, (iv) Lay Your Sleeping Head, (v) A Hub for the Universe, (vi) Birches, (vii) Tithonus
3. *New Directions*-Part 1,2,3
4. Transcription of Words: agony, antonym, capable, committee, decorum, aero plane, calendar, privacy, absolute, academy, academic, advertisement, adversity, allopathic, mathematics, automobile, biography, biology, competition, competitive, certificate, certify, democracy, capacity, magnificent, photography, photograph, photographic, vindictive, celebrity

The syllabus is divided in four sections as mentioned below:

SECTION-A

Animal Farm—Complete Text

SECTION-B

Fresh Showers

The following poems are DELETED:

- (i) Alexander's Feast, (ii) Evelyn Hope, (iii) Adam's Curse, (iv) Lay Your Sleeping Head, (v) A Hub for the Universe, (vi) Birches, (vii) Tithonus

SECTION-C

New Directions-Part 1,2,3

SECTION–D

Transcription of Words: agony, antonym, capable, committee, decorum, aeroplane, calendar, privacy, absolute, academy, academic, advertisement, adversity, allopathic, mathematics, automobile, biography, biology, competition, competitive, certificate, certify, democracy, capacity, magnificent, photography, photograph, photographic, vindictive, celebrity

Distribution of Marks & Instructions for the Paper Setters:-

There are four sections in the syllabus. One question with internal choice shall be set from each section. Each question will carry 20 marks. A question may have sub-parts (not exceeding 4) carrying appropriate weightage. The students are required to attempt five questions in all, selecting at least one question from each section.

SECTION–A

- Two questions will be set from **Section–A** of the syllabus. One essay type question based on the theme, plot, characterization etc would be set carrying eight marks. The second part of the question would carry three short answer questions. Each question would carry four marks. The students would be required to attempt any one of the two sets of questions. (8+3x4=20)

SECTION–B

- Two questions will be set from **Section–B** of the syllabus. One essay type question based on the theme, plot, characterization would be set carrying eight marks. The second part of the question would carry three short answer questions. Each question would carry four marks. One of the questions may be a reference to the context of a stanza. The students would be required to attempt any one of the two sets of questions. (8+3x4=20)

SECTION–C

- Two questions will be set from **Section–C** of the syllabus. One essay type question based on the theme, plot etc. of the prescribed text would be set carrying eight marks. The second part of the question would carry three short answer questions. Each question would carry four marks. The students would be required to attempt any one of the two sets of questions. (8+3x4=20)

SECTION–D

- Two questions would be set from **Section–D** of the syllabus. Ten words for transcription (five out of the prescribed list and any other five polysyllabic words) would be set in each question. Each word would carry two marks. The students would be required to attempt any one of the two sets of questions. (10x2=20)

SEMESTER-III**PAPER- V, VI & VII, STREAM-1
PUNJABI (ELECTIVE) ਪੰਜਾਬੀ (ਇਲੈਕਟਿਵ)**

ਸਮਾਂ: ਤਿੰਨ ਘੰਟੇ

ਕੁਲ ਅੰਕ: 100

ਅੰਕ-ਵੰਡ ਅਤੇ ਪਰੀਖਿਅਕ ਲਈ ਹਦਾਇਤਾਂ

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੇ ਚਾਰ ਭਾਗ ਹੋਣਗੇ। ਹਰ ਭਾਗ ਵਿਚ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
2. ਵਿਦਿਆਰਥੀ ਨੇ ਕੁੱਲ ਪੰਜ ਪ੍ਰਸ਼ਨ ਕਰਨੇ ਹਨ। ਹਰ ਭਾਗ ਵਿਚੋਂ ਇਕ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੈ। ਪੰਜਵਾਂ ਪ੍ਰਸ਼ਨ ਕਿਸੇ ਵੀ ਭਾਗ ਵਿਚੋਂ ਕੀਤਾ ਜਾ ਸਕਦਾ ਹੈ।
3. ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦੇ ਬਰਾਬਰ ਹਨ।
4. ਪੇਪਰ ਸੈੱਟ ਕਰਨ ਵਾਲਾ ਜੇਕਰ ਚਾਹੇ ਤਾਂ ਪ੍ਰਸ਼ਨਾਂ ਦੀ ਵੰਡ ਅੱਗੋਂ ਵੱਧ ਤੋਂ ਵੱਧ ਚਾਰ ਉਪ-ਪ੍ਰਸ਼ਨਾਂ ਵਿਚ ਕਰ ਸਕਦਾ ਹੈ।

ਪਾਠ-ਕ੍ਰਮ ਅਤੇ ਪਾਠ-ਪੁਸਤਕਾਂ**ਸੈਕਸ਼ਨ- ਏ****ਮੱਧਕਾਲੀਨ ਪੰਜਾਬੀ ਕਾਵਿ (1701-1900)**

(ਸੰਪਾ. ਹਰਜਿੰਦਰ ਸਿੰਘ ਢਿੱਲੋਂ ਅਤੇ ਨਰਜੀਤ ਸਿੰਘ ਖਹਿਰਾ)

ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਯੂਨੀਵਰਸਿਟੀ, ਅੰਮ੍ਰਿਤਸਰ, 2007

(ਫਜ਼ਲਸ਼ਾਹ ਅਤੇ ਹਾਸ਼ਮ ਪਾਠਕ੍ਰਮ ਦਾ ਹਿੱਸਾ ਨਹੀਂ ਹਨ)

(ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ)**ਸੈਕਸ਼ਨ- ਬੀ****ਪੰਜਾਬੀ ਕਹਾਣੀ ਦੀ ਸ਼ਾਹਰਾਹ** (ਸੰਪਾ. ਡਾ. ਰਮਿੰਦਰ ਕੌਰ),

ਰਵੀ ਸਾਹਿਤ ਪ੍ਰਕਾਸ਼ਨ, ਅੰਮ੍ਰਿਤਸਰ

("ਓਪਰਾ ਮਰਦ" ਅਤੇ "ਡੈੱਡ ਲਾਈਨ" ਕਹਾਣੀਆਂ ਸਿਲੇਬਸ ਵਿੱਚ ਸ਼ਾਮਿਲ ਨਹੀਂ ਹਨ)

(ਵਿਸ਼ਾ-ਵਸਤੂ/ਸਾਰ/ਪਾਤਰ-ਚਿਤਰਨ)**ਸੈਕਸ਼ਨ- ਸੀ****ਸਾਹਿਤ ਆਲੋਚਨਾ ਨਾਲ ਸੰਬੰਧਿਤ ਮੂਲ ਸੰਕਲਪ** : ਬਿੰਬ, ਪ੍ਰਤੀਕ, ਬੁਣਤੀ ਤੇ ਬਣਤਰ, ਕਥਾ ਤੇ ਕਥਾਨਕ,

ਪਾਤਰ ਉਸਾਰੀ, ਰੂਪ ਤੇ ਵਸਤੂ, ਅਨੁਕਰਣ, ਵਿਰੇਚਣ

ਸੈਕਸ਼ਨ- ਡੀ**ਸਾਹਿਤ ਰੂਪ** : ਵਾਰ, ਜੰਗਨਾਮਾ, ਕਿੱਸਾ, ਕਾਫ਼ੀ : ਪਰਿਭਾਸ਼ਾ, ਪ੍ਰਕਿਰਤੀ ਅਤੇ ਤੱਤ (ਤਿੰਨ ਵਿਚੋਂ ਦੋ)

SEMESTER-III**PAPER- V, VI & VII, STREAM-1
HINDI (ELECTIVE)****मध्ययुगीन काव्य, इतिहास, व्याकरण तथा काव्यांग**

समय— 3 घण्टे

पूर्णांक: 100

Instructions for the Paper Setters:-

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

सैक्शन-ए**व्याख्या के लिए निर्धारित कृति**

- काव्य—उत्कर्ष, संपादक—डॉ. सुधा जितेन्द्र, लोकभारती प्रकाशन, नई दिल्ली, 2016
निर्धारित कवि: कबीर, गुरु नानक देव, सूरदास, तुलसीदास, (निर्धारित पाठ्यक्रम में तुलसीदास के पहले पांच पद हटा दिए गये हैं और शेष पाठ्यक्रम में हैं) रविदास, बिहारी, रहीम, गुरु तेग बहादुर।

सैक्शन-बी

काव्य उत्कर्ष पुस्तक में निर्धारित कवियों का जीवन—परिचय एवं कविताओं से सम्बन्धित प्रश्न।

सैक्शन-सी

हिन्दी साहित्य का इतिहास, प्रकाशक, गुरु नानक देव यूनिवर्सिटी, अमृतसर,
हिन्दी साहित्य के आदिकाल का अध्ययन अपेक्षित है। तत्संबंधी प्रमुख परिक्षेत्र—आदिकाल का नामकरण,
आदिकाल: परिस्थितियां, विशेषताएं, सिद्ध और रासों साहित्य : परिचय और विशेषताएं।

सैक्शन-डी**अलंकार निरूपण:**

अनुप्रास, यमक, उपमा, रूपक, प्रतीक, विरोधाभास (छ: अलंकार) परिभाषा, लक्षण सोदाहरण परिचय।
स्वर, व्यंजन: परिभाषा, लिंग, वचन, प्रचलित संधि और संधि विच्छेद, (केवल व्यावहारिक)

सहायक पुस्तक

व्याकरण के लिए कोई भी सामान्य पुस्तक देखे।

SEMESTER-III

**PAPER- V, VI & VII, STREAM-1
PHILOSOPHY
DEDUCTIVE LOGIC AND APPLIED ETHICS (OPT. I)
(Only for Regular Students)**

Lectures to be delivered: 6+4=10 per week
Time: 3 Hours
Pass Marks: 35%

Marks: 100
Theory Marks: 80
Practical Marks: 20

Instructions for the Paper Setters:-

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

1. Definition, Nature and Utility of Western Logic.
2. Laws of Thought: Identity, Contradiction, Excluded Middle, Law of Sufficient Reason and Characteristics.
3. Terms: Classification, Connotation and Denotation. Inverse Relation between Connotation and Denotation.

SECTION-B

4. Proposition: Classification of Propositions, Four-fold division of Propositions.
5. Immediate Inference: Square of Opposition of Proposition, Contradiction, Contrary, Sub-Contrary, Subalteration.
6. Mediate Inference: Categorical Syllogism, Rules of Validity, Figures and Moods.

SECTION-C

7. Applied Ethics: Nature, Scope and Uses.
8. De-ontological Approach to Moral Action: Immanuel Kant, Bhagavat Gita.
9. Teleological Approach to Moral Action: J.S. Mill, Bentham.

SECTION-D

10. Medical Ethics: Definition, Nature, Problems; Euthanasia.
11. Educational Ethics & Legal Ethics: Definition, Nature, Problems.
12. Business Ethics: Definition, Nature, Problems.

Recommended Readings:-**English Books:-**

1. Beauchamp T.L. & J.E. Childress, (Jr.), *Principles of Biomedical Ethics*, 2nd Ed., Oxford University Press, Oxford, 2001
2. Copi, I.M., *Introduction to Logic*, 6th ed., New York, Macmillan, 1982.
3. Singer, Peter, *Practical Ethics*, Cambridge University Press, 1993.
4. Titus, Harold H., *Ethics for Today*, Eurasia Publishing House, New Delhi, 1966.

Punjabi Books:-

1. ਵਜ਼ੀਰ ਸਿੰਘ ਅਤੇ ਹਰਨਾਮ ਸਿੰਘ, *ਤਰਕ ਗਿਆਨ ਦੇ ਮੁਢਲੇ ਨੇਮ*, (ਭਾਗ-1) (ਨਿਗਮਨ), ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ।
2. ਸ਼ਰਮਾ, ਪੀ.ਏ. ਅਤੇ ਵਜ਼ੀਰ ਸਿੰਘ, *ਤਰਕ ਗਿਆਨ ਦੀ ਜਾਣ-ਪਛਾਣ*, ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ।

SEMESTER-III**PAPER- V, VI & VII, STREAM-1
PSYCHOLOGY****EXPERIMENTAL PSYCHOLOGY-I
(THEORY)****Time: 3 Hours****Pass Marks: 35% of the subject
(Theory and Practical Separately)****Max. Marks: 100****Theory Marks: 75****Practical Marks: 25****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

Experimental Method: Introduction to Experimental Method, Advantages and Disadvantages, Study of cause and effect relationship

Variables: Concept and Nature, Types of Variables, Stimulus, Organismic and Response Variables, Process of experimentation-manipulation and control of variables, Introduction to Experimental Designs

SECTION-B

Sensation and Perception: Types of sensations, Visual sensation, Structure and functions of the Eye, Theories of Colour Vision (Young-Helmholtz, Opponent-Process & Evolutionary), Auditory Sensation: Structure and functions of the Ear, Theories of Hearing, Cutaneous, Olfactory and Gustatory Sensations

SECTION-C

Attention: Concept and Nature of Attention, Characteristics of Attention

Perception: Concept, Nature and factors affecting perception, Approaches to Perception (Gestalt and Behaviouristic), Perception of Form, Shape, Depth and Distance, Perceptual Constancy

SECTION-D

Perception of Space and Movement:

Illusions: Types, causes and Theories

Statistics: Normal Probability Curve, Concept, Nature and Characteristics (Numericals of Areas under NPC only)

References:-

1. D. Amato, M.H.R. (2001): Experimental Psychology, Tata McGraw Hill, New Delhi.
2. Garrett, H.E. and Woodworth, R.S. (1969): Statistics in Psychology and Education. Vikils, Feffer and Simons Pvt. Ltd.
3. Kerlinger, P.N.(1988): Foundation of Behavioural Research, Surjeet Publications, New Delhi.
4. Postman, L. and Egan. J.P.: Experimental Psychology, Harper and Row, New York.
5. Schiffman, H.R. (1982): Sensation and Perceptions, John Willey and Sons.
6. Woodworth, R.S. and Schlosberg, H.(1954): Experimental Psychology, Holt, Rinehart and Winston, Inc.
7. Solso, R.L. (2007): Experimental Psychology: A Case Approach Pearson Education, New Delhi.
8. Sternberg, R.J. (2007): Cognitive Psychology, Thomson Wads Worth.

SEMESTER-III**PAPER- V, VI & VII, STREAM-1
PSYCHOLOGY****(PRACTICAL)****Marks: 25****Instructions for the Practical Examination:-**

Students are supposed to perform five practicals out of 6 mentioned in the syllabus. Practical examination will be of 3 hours duration. External examiner will conduct the practical examination. The students will perform one practical in the exam carrying 25 marks. Evaluation of the practical would be done on the basis of write-up of file book (5 Marks), performance and viva-voce (20 Marks) relating to the practicals. In case students have not completed 5 practicals, the examiner will deduct marks at the rate of 5 for each left practical out of total evaluation of the student. No reappear will be allowed in the practical examination. Fail in the practical will be considered fail overall in the subject.

Five Practical have to be performed out of the following:-

1. Role of Set in Perception
2. Span of Attention/Division of Attention.
3. Muller-Lyer Illusion
4. Figure-ground differentiation
5. Paired Comparison Method for Colour Preference
6. Reaction Time (Simple Vs. choice RT or Auditory vs Visual RT)

SEMESTER–III

PAPER– V, VI & VII, STREAM–1
SOCIOLOGY

SOCIETY IN INDIA

Time: 3 Hours

Max. Marks: 100

Instructions for the Paper Setters:-

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION–A

- (a) **Indian Society:** Features and Unity in Diversity.
(b) **Caste:** Features, Functions, Changing patterns, Difference between caste and class.

SECTION–B

- (a) **Social Issues:** Communalism, Casteism, Gender, Human Rights.

SECTION–C

- (a) **Marriage:** Meaning, Types, Functions and Changes.
(b) **Family:** Meaning, Types, Functions and Changes.
(c) **Kinship:** Meaning and Terminology.

SECTION–D

- (a) **Society in India:** Rural, Urban and Tribal.

Recommended Books:-

1. Abraham, M. Francis: *Contemporary Sociology*, Oxford University, New Delhi, 2006.
2. Ahuja, Ram. 1999, *Society in India*. Jaipur: Rawat.
3. Atal, Yogesh. 2006, *Changing Indian Society*. Jaipur: Rawat.
4. Ghurye, G.S.: *Caste & Race in India*, Popular, Bombay, Punjabi Translations by N.S. Sodhi, Panjabi University, Patiala, 1962.
5. Hutton, J.H.: *Caste in India—Its Nature, Functions and Origin*, Oxford University Press, Delhi 1980.
6. Jayaraman, Raja: *Caste & Class, Dynamics of Inequality in Indian Society*, Hindustan Publishing Corporation, 1981.
7. Kapadia, K.M.: *Marriage and Family in India*, Oxford University Press, Calcutta, 1996.
8. Kapila, S: *A Textbook of Sociology*, Part-I & II, New Academic House, Jalandhar, 1990-91.
9. Kothari, Rajni (ed): *Caste in Indian Politics*, Orient Longman, Delhi, 1973.
10. Mandelbaum, David G.: *Society in India*, Popular Prakashan, Bombay, 1972.
11. Mukerji, D.P.: *Diversities: Essays in Economics, Sociology and Social Problems*, Manak, New Delhi, 2002.
12. Maclver, R.M. & Page, Charles H.: *Society- An Introductory Analysis*, Macmillan, London, 1974.
13. Sharma, K.L. 2007, *Indian Social Structure and Change*. Jaipur: Rawat.

SEMESTER-III**PAPER- V, VI & VII, STREAM-2
MATHEMATICS****PAPER-I: ANALYSIS****Time: 3 Hours****Marks: 50****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

Definition of a sequence. Theorems on limits of sequences. Bounded and monotonic sequences. Cauchy's convergence criterion.

SECTION-B

Series of non-negative terms. Comparison tests. Cauchy's integral test. Ratio test. Cauchy's root test. Raabe's test, logarithmic test. De Morgan's and Bertrand's test. Kummer's test, Cauchy condensation test, Gauss test, Alternating series. Leibnitz's test, absolute and conditional convergence.

SECTION-C

Partitions, Upper and lower sums. Upper and lower integrals, Riemann integrability. Conditions of existence of Riemann integrability of continuous functions and of monotone functions. Algebra of integrable functions.

SECTION-D

Improper integrals and statements of their conditions of existence. Test of the convergence of improper integral, Beta and Gamma functions.

Books Recommended:-

1. Malik, S.C. and Savita Arora: Mathematical Analysis, Wiley Eastern Ltd. (1991).
2. Apostol, T.M.: Mathematical Analysis, Addison Wesley Series in Mathematics (1974).
3. Narayan, S. and P.K. Mittal: Integral Calculus, Sultan Chand & Sons.

SEMESTER-III**PAPER- V, VI & VII, STREAM-2
MATHEMATICS
PAPER-II: ANALYTICAL GEOMETRY****Time: 3 Hours****Marks: 50****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

Transformation of axes, shifting of origin, Rotation of axes in two dimension and three dimension, The invariants, Joint equation of pair of straight lines, equations of bisectors

SECTION-B

Parabola and its properties. Tangents and normal, Pole and polar, pair of tangents at a point, Chord of contact, equation of the chord in terms of mid point and diameter of conic.

SECTION-C

Ellipse and hyperbola with their properties. Tangents and normal, Pole and polar. pair of tangents at a point, Chord of contact, Identifications of curves represented by second degree equation (including pair of lines).

SECTION-D

Intersection of three planes, condition for three planes to intersect in a point or along a line or to form a prism, Sphere: Section of a sphere by a plane, spheres of a given circle. Intersection of a line and a sphere. Tangent line, tangent plane, power of a point w.r.t. a sphere, radical planes.

Books Recommended:-

1. Gorakh Prasad and H.C. Gupta: Text Book on Coordinate Geometry.
2. S.L. Loney: The Elements of Coordinate Geometry, Macmillan and Company, London.
3. Narayan, S.: Analytical Solid Geometry, Sultan Chand & Sons (2005).
4. Kreyszig, E.: Advanced Engineering Mathematics.
5. Thomos, G.B. and Finney, R.L.: Calculus and Analytic Geometry.

SEMESTER-III**PAPER- V, VI & VII, STREAM-2
COMPUTER SCIENCE****COMPUTER ORIENTED NUMERICAL AND STATISTICAL METHODS
(THEORY)**

Time: 3 Hours
4 Hours/week

Max. Marks: 100
Theory Marks: 75
Practical Marks: 25

Instructions for the Paper Setters:-

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A**Introduction:**

Numerical methods, Numerical methods versus numerical analysis, Errors and Measures of Errors.

Non-linear Equations, Iterative Solutions, Multiple roots and other difficulties, Interpolation methods, Methods of bisection, False position Method, Newton Raphson-method.

SECTION-B

Simultaneous Solution of Equations, Gauss Elimination Method Gauss Jordan method. Gauss Siedel Method, Matrix Inversion Method.

SECTION-C

Interpolation and Curve Fitting, Lagrangian Polynomials, Newtons Methods: Forward Difference Method, Backward Difference Method Divided Difference Method.

Numerical Integration and Different Trapezoidal Rule, Simpson's 1/3 Rule Simpson's 3/8 Rule.

SECTION-D**Numerical differentiation by Polynomial Fit Statistical Techniques**

Measure of Central Tendency, Preparing frequency distribution table, Mean Arithmetic, Mean geometric, Mean harmonic, Mean median Mode.

Measure of dispersion, Skewness and Kurtosis Range, Mean deviation, Standard deviation, co-efficient of variation, Moments Skewness Kurtosis.

Correlation Bivariate Distribution Multivariate distribution.

Regression B.C., Linear Regression, Multiple Regression.

Trend Analysis least square fit linear trend, Non-linear trend

$$Y=axb$$

$$Y=abx$$

$$Y=acx$$

$$\text{Polynomial fit: } Y=a+aX+ea^2x^2+a^nxn+n$$

Books Recommended:-

- 1 B.S. Grewal: *Numerical Methods for Engineering*, Sultan Chand Publications.
- 2 V. Rajaraman: *Computer Oriented Numerical Methods*, Prentice Hall of India Private Ltd., New Delhi.

SEMESTER-III

COMPUTER SCIENCE

(PRACTICAL)

**COMPUTER ORIENTED NUMERICAL AND STATISTICAL METHODS LAB.
(PRACTICAL)**

Marks: 25

2 Hours/week

Practical based on Computer Oriented Numerical and Statistical Methods

SEMESTER–III**PAPER– V, VI & VII, STREAM–2
ECONOMICS****MACRO ECONOMICS****Time: 3 Hours****Max. Marks: 100****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION–A

Distinction between Micro and Macro Economics; Determination of Income and Employment: Classical and Keynesian models; Say's Law of Market and aggregate demand and aggregate supply.

Consumption functions; average (short-run and long run) and marginal propensity to consume; static and dynamic multipliers.

SECTION–B

Investment: Meaning, Demand schedules and factors affecting investment decision. Marginal Efficiency of Capital. Accelerator, multiplier-accelerator interaction.

Trade cycles-meaning, characteristics and phases. Samuelson and Hicks Models of trade cycles.

SECTION–C

Money: Its functions and role. Money and Capital Markets (Introductory). Quantity Theory of Money. Fisher's and Cambridge's equations. Liquidity preference theory.

Banking: Definitions of banks. Credit creation and credit control.

SECTION–D

Inflation: Concept, Causes and cures. Inflation-unemployment Trade-off (only Phillips' contribution).

Macroeconomic Policies: Fiscal policy – meaning, objectives and instruments.

Monetary policy – meaning, objectives and instruments.

Recommended Texts:

1. Shapiro, E. Macroeconomic Analysis, Harcourt, Brach and World, New York, 1978.
2. Dernaburg, T.F. and MC Dougall D.M., Macroeconomics: the Measurement, Analysis and Control of Aggregate Economic Activity, McGraw-Hill, Kogakusha, Tokyo, 1972.
3. Gupta, S.B. Monetary Economics: Institutions, Theory and Policy, S. Chand, New Delhi, 2000.

SEMESTER-III**PAPER- V, VI & VII, STREAM-3
HISTORY****HISTORY OF INDIA (AD 1707-1947)****Time: 3 Hours****Max. Marks: 100****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

1. **Foundation of British Rule:** Advent of the British; Battles of Plassey and Buxar, Clive and Warren Hastings; Subsidiary Alliance Policy, Doctrine of Lapse.
2. **The Uprising of 1857:** Causes, Spread of the Uprisings, Nature and aftermath.

SECTION-B

3. **Economic Changes:** Agriculture, British commercial policies and the impact on the trade balance; Destruction of indigenous industries; the growth of modern industry; The drain theory.
4. **Growth of Education and Political Organization:** New education; Rise of the middle classes; **Socio Religious Movements :** Brahma Samaj, Arya Samaj, Rama Krishana Mission, Prarthna Samaj, Theosophical Society, Aligarh Movement.

SECTION-C

5. **Early Political Associations and Emergence of Revolutionary Terrorism:** Early Political Association and Indian National Congress; Swadeshi Movement, Partition of Bengal and its impact; Revolutionary Terrorism in Bengal, Maharashtra and the Punjab, Impact on the National Movement.
6. **The Phase of Non-Co-operation:** Emergence of Gandhi; The Jallianwala Bagh Massacre and its impact; Khilafat agitation; the Non-cooperation Movement; Withdrawal and impact; the Swarajists; The Simon Commission; **The Phase of Civil Disobedience :** The programme and the course of the Civil Disobedience Movement, the Round Table Conferences; Communal Award; Poona-pact; Withdrawal of Civil Disobedience Movement

SECTION-D

7. **Constitutional Development:** The Minto-Morley Reforms of 1909, The Act of 1919 and Dyarchy; Government of India Act, 1935 and Provincial Autonomy.
8. **Towards Partition and Independence:** Growth of communal politics; Lahore resolution, Cripps proposals; Quit India Movement; the INA Trials; Cabinet Mission and towards Independence.

Suggested Reading:-

1. Bipan Chandra, *History of Modern India*, Orient Longman, Hyderabad, 2009.
2. Sarkar, Sumit, *Modern India (1885-1947)*, Orient Longman, New Delhi, 1983.
3. Bose, Sugata and Ayesha Jalal, *Modern South Asia: History, Culture, Political Economy*, OUP, New Delhi, 2004.
4. Bandyopadhyay, Sekhar, *From Plassey to Partition: A History of Modern India*, Orient Longman, Hyderabad, 2004.
5. Datta, Kali Kinkar, *A Social History of Modern India*, Macmillan, New Delhi, 1975.
6. Bannerjee, A.C., *The New History of Modern India (1707-1947)*, K.P.Bagchi, Calcutta, 1983.
7. Burton, Stein, *A History of India*, OUP, New Delhi, 2003.
8. Desai, A.R., *Social Background of Indian Nationalism*, Popular Prakashan, Bombay, 1966.
9. Misra, B.B., *The Indian Middle Classes: Their Growth in Modern Times*, OUP, London, 1978.
10. Jones, Kenneth, *Socio-Religious Movements in India*, CUP, Cambridge, New Delhi, 1989.
11. Chopra, P.N. et al, *A Social, Cultural and Economic History of India: Modern India*, Vol. III, Macmillan, New Delhi, 1974.
12. Chaudhuri, M.K., (ed.), *Trends of Socio-Economic Change in India (1871-1961)*, IAS, Simla, 1969.
13. Choudhary, Sukhbir, *Peasants' and Workers' Movements in India, 1905-1929*, PPH, New Delhi, 1971.

SEMESTER–III**PAPER– V, VI & VII, STREAM–3
GEOGRAPHY****RESOURCES AND ENVIRONMENT: WORLD PATTERNS
(THEORY)****Time: 3 Hours****Max. Marks: 100****Theory Marks: 70****Practical Marks: 30****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

Note: Stencil/outline maps and coloured pencils are allowed.

Objective:

1. To understand concept of resources and their interface with environment;
2. To examine use and misuse of various resources, and analyse future prospects;
3. To study various methods and approaches of conservation and management of natural resources;
4. To understand the quantitative and qualitative aspects of human resources in spatial perspectives and the associated environmental problems.

Course Contents:**SECTION–A****Environment and Resources:**

Meaning, nature and components of environment. Nature and definition of Resources. Resources environment interface.

Classification of Resources: Biotic and abiotic, Exhaustible and inexhaustible, Potential and Developed, Agricultural and Pastoral, Mineral and Industrial.

SECTION–B**Utilization of Natural Resources:**

Distribution availability, utilization and conservation of water, minerals (in general) and energy resources; their economic and environmental significance and sustainability.

Types and distribution of forests—their economic and environmental significance and conservation.

Types and distribution of fisheries—their economic and environmental significance and conservation.

Major soil types and their distribution; problems of soil erosion and soil conservation.

SECTION–C

Human Resources: Number, Growth, Distribution and Density.

Population Resources Relationship: Population- Resource Regions of the world.

SECTION–D

Environment: Natural and Human, Man-environment relationship—determinism, Possibilism, ecology.

Biodiversity: Loss of natural and agro-biodiversity.

Environmental Issues: Pollution; food security; deforestation; conservation of wild life.

Books Recommended:-

1. Agarwal, A. et.al. : The Citizen's Fifth Report, Centre for Science and Environment, New Delhi, 1999.
2. Chandna, R.C.: A Geography of Population, Kalyani Publishers, Ludhiana, 2014.
3. Chawla, I.N.: Geography of Resources, Bharat Prakashan, Jalandhar, latest edition.
4. Hartshorne Truman A and W. Alexander: Economic Geography, Prentice Hall, 1988, 3rd John Edition.
5. Kates, R.W. & Burton, I (Eds.): Geography, Resources and Environment, Vol. I & II, University of Chicago Press, Chicago, 1986.
6. Naresh Kumar: Environmental Studies, Sharma Publishers, Jalandhar 2009.
7. Trewartha, G.T.: A Geography of Population— World Patterns. John Wiley and Sons, New York, 1969.
8. Zelinsky, Wilbur: A Prologue to Population Geography, Prentice Hall, New Jersey, 1966.
9. Zimmerman E.W.: World Resources and Industries, Harpar, New York.
10. Chandna, R.C.: Environmental Geography Kalyani Publishers, Ludhiana, 2014.
11. Chawla. I.N.: Resources & Environmental Bharat Publishers, Jalandhar.
12. Singh, J.S. & Singh, S.P. & Gupta S.R. (Eds.): Ecology Environment and Resources Conservation, Anamaya Publishers, New Delhi, 2008.

SEMESTER–III**PAPER– V, VI & VII, STREAM–3
GEOGRAPHY****CARTOGRAPHIC REPRESENTATION OF GEOGRAPHIC DATA
(PRACTICAL)****Time: 3 Hours****Max. Marks: 30****Written Paper of 3 Hours: 15 Marks****Practical Record (File): 08 Marks****Viva: 07 Marks****Objective:**

1. To apprise the students with symbolization of different types of geographical data and depiction of various spatial data.
2. To provide training in application of various graphical methods of depicting geographic data.

Course Contents:**SECTION–A****Symbolization of Geographical Data:**

- a) **Point Symbols:** Dot, circle, sphere.
- b) **Line Symbols:** Isopleths and flow lines.
- c) **Areas Symbols:** Choropleth.

SECTION–B

- a) Representation of Point symbols, Line symbols and area symbols in Cartographic Representation of: Population data (distribution, density, growth, migration and literacy)
- b) Agriculture data (land utilization, distribution of crops, percentage of cropped area and irrigated areas).
- c) Industrial data (distribution, employment and production)
- d) Transport data (traffic flow).

Note:

1. A compulsory question containing 10 short answer type questions will be set covering the whole syllabus. The students will attempt 6 short answer type questions in about 25–30 words each. Each short answer type question will carry ½ mark (Total 3 marks).
2. The whole syllabus will be divided into 2 units. Eight questions will be set out of the whole syllabus, four from each unit. The students will be required to attempt two questions from each unit. Each question will carry 3 marks. These will be in addition to the compulsory question at serial number 1. (Total 12 marks)
3. Evaluation of Practical Record will be done at the time of viva-voice examination.
4. A minimum of 16 sheet are to be prepared by each student.
5. In case, the candidate has applied for improvement, he/she should be required to make a fresh practical note book.
6. For practical classes, the number of students in one group shall not exceed fifteen.

Books Recommended:-**Essential Readings:-**

1. Khullar, D.R.: Essentials of Practical Geography, New Academic Publishing Co., Mai Hiran Gate, Jalandhar, 2000.
2. Robinson, A.H.: Elements of Cartography, John Wiley, New York, 1995.
3. Singh, Gopal: Mapwork & Practical Geography, Vikas Publishing House Pvt. Ltd., New Delhi, 1995.
4. Singh, R.L. & Singh Raghunandan: Mapwork and Practical Geography, Central Book Depot, Allahabad, 1993.

Further Readings:-

1. Birch, T.W.: Maps Topographical & Statistical; Clarendon Press, Oxford, 1949.
2. Garnett, A.: Geographical Interpretation of Topographical Maps, George Harrap & Co., London, 1953.
3. Monkhosue, F.J.: Maps and Diagrams, Methuen & Co., London, 1994 (reprint).

SEMESTER-III**PAPER- V, VI & VII, STREAM-3
POLITICAL SCIENCE****INDIAN CONSTITUTION****Time: 3 Hours****Max. Marks: 100****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

1. Constitution Assembly and making of India's Constitution.
2. Basic features of the Indian Constitution.
3. Preamble and its importance.
4. Nature of Indian Federalism and Centre-State Relations.

SECTION-B

1. Fundamental Rights, features, kinds and evaluation.
2. Fundamental Duties.
3. Directive Principles of the State Policy.

SECTION-C

1. Parliament: Composition, Powers and Role.
2. President: Election, Powers and Position.
3. Indian Cabinet and Prime Minister: Election, Powers, Position and Changing Role.
4. Supreme Court and High Court: Composition, Powers and Role.

SECTION-D

1. Governor: Appointment, Powers and Role.
2. State Legislature: Composition, Powers and Role.
3. Council of Ministers and Chief Minister: Election, Powers, Position and Role.

Books Recommended:-

1. G. Austin, *The Indian Constitution: Corner Stone of a Nation*, Oxford, Oxford University Press, 1966.
2. G. Austin, *Working of a Democratic Constitution: The Indian Experience*, Oxford University Press, 2000, Delhi.
3. D.D. Basu, *An Introduction to the Constitution of India*, New Delhi, Prentice Hall, 2008.
4. C.P. Bambhri, *The Indian State Fifty Years*, New Delhi, Shipra, 1997.
5. P. Brass, *Politics of India Since Independence*, Hyderabad, Orient Longman, 1990.

B.A. B.ED. (FOUR YEARS INTEGRATED DEGREE PROGRAMME)

6. P. Brass, *Caste, Faction and Parties in Indian Politics*, Vol. II, Delhi, Chanakya Publications 1984-1985.
7. P. Brass, *Ethnic Groups and the State*, London, Croom, Helm, 1995.
8. P. Brass, *Language, Religion and Politics in North Indian*, London, Cambridge University Press, 1974.
9. B.L. Fadia, *State Politics in India*, Vol. II, New Delhi, Radiant Publishers, 1984.
10. F.R. Frankel, *India's Political Economy 1947-1977, The Gradual Revolution*, Oxford, Oxford University Press, 1978.
11. R. Kothari, *State against Democracy: In Search of Human Governance*, Delhi, Ajanta, 1988.
12. R. Kothari, *Politics in India*, New Delhi, Orient Longman, 1970.
13. R. Kothari, *Party System and Election Studies*, Bombay, Asia Publishing House, 1967.
14. I. Narain (ed.), *State Politics in India*, Meerut, Meenakshi Parkashan, 1967.
15. M.V. Pylee, *Constitutional Government in India*, Bombay, Asia Publishing House, 1977.
16. M.V. Pylee, *An Introduction to the Consutitution of India*, New Delhi, Vikas, 1998.
17. S.P. Verma and C.P. Bhambari (ed.), *Election and Political Consciousness in India*, Meerut, Meenakshi Parkashan, 1967.
18. B.L. Fadia, *Indian Government and Politics*, Agra, Sahitya Bhavan Publications, 2008.
19. A.S. Narang, *Indian Government and Politics*, New Delhi, Gitanjali, 1999.
20. *Indian Journal of Political Sciences*
21. *Punjab Journal of Politics*
22. Seminar
23. Lloyd I. Rudolph and Susanne Hoeba Rudolph, *Explaining Indian Democracy: A Fifty-Year Perspective, 1956-2006*, Vol. I, II, III, New Delhi, OUP, 2008.
24. Francine Frankel, *India's Political Economy: 1947-2004*, New Delhi, OUP, 2006.
25. Madhav Khosla, *The Indian Constitution*, Oxford, 2012
26. Sudhir Krishnaswamy, *Democracy and Constitutionalism in India : the Study of Basic Structue*, Oxford, 2011
27. P.M Bakshi, *The Constitution of India*, Universal, 2007.
28. J.C Johari, *The Constitution of India*, Sterling, 2007
29. Brij Kishore Shasma, *Introduction to the Constitution of India*, PHI, 2009

SEMESTER–III**PAPER– V, VI & VII, STREAM–3
ECONOMICS****MACRO ECONOMICS****Time: 3 Hours****Max. Marks: 100****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION–A

Distinction between Micro and Macro Economics; Determination of Income and Employment: Classical and Keynesian models; Say's Law of Market and aggregate demand and aggregate supply.

Consumption functions; average (short-run and long run) and marginal propensity to consume; static and dynamic multipliers.

SECTION–B

Investment: Meaning, Demand schedules and factors affecting investment decision. Marginal Efficiency of Capital. Accelerator, multiplier-accelerator interaction.

Trade cycles-meaning, characteristics and phases. Samuelson and Hicks Models of trade cycles.

SECTION–C

Money: Its functions and role. Money and Capital Markets (Introductory). Quantity Theory of Money. Fisher's and Cambridge's equations. Liquidity preference theory.

Banking: Definitions of banks. Credit creation and credit control.

SECTION–D

Inflation: Concept, Causes and cures. Inflation-unemployment Trade-off (only Phillips' contribution).

Macroeconomic Policies: Fiscal policy – meaning, objectives and instruments.

Monetary policy – meaning, objectives and instruments.

Recommended Texts:

1. Shapiro, E. Macroeconomic Analysis, Harcourt, Brach and World, New York, 1978.
2. Dernaburg, T.F. and MC Dougall D.M., Macroeconomics: the Measurement, Analysis and Control of Aggregate Economic Activity, McGraw-Hill, Kogakusha, Tokyo, 1972.
3. Gupta, S.B. Monetary Economics: Institutions, Theory and Policy, S. Chand, New Delhi, 2000.

SEMESTER-III

PAPER- V, VI & VII, STREAM-4
PHILOSOPHY
DEDUCTIVE LOGIC AND APPLIED ETHICS (OPT. I)
(Only for Regular Students)

Lectures to be delivered: 6+4=10 per week
Time: 3 Hours
Pass Marks: 35%

Marks: 100
Theory Marks: 80
Practical Marks: 20

Instructions for the Paper Setters:-

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

1. Definition, Nature and Utility of Western Logic.
2. Laws of Thought: Identity, Contradiction, Excluded Middle, Law of Sufficient Reason and Characteristics.
3. Terms: Classification, Connotation and Denotation. Inverse Relation between Connotation and Denotation.

SECTION-B

4. Proposition: Classification of Propositions, Four-fold division of Propositions.
5. Immediate Inference: Square of Opposition of Proposition, Contradiction, Contrary, Sub-Contrary, Subalternation.
6. Mediate Inference: Categorical Syllogism, Rules of Validity, Figures and Moods.

SECTION-C

7. Applied Ethics: Nature, Scope and Uses.
8. De-ontological Approach to Moral Action: Immanuel Kant, Bhagavat Gita.
9. Teleological Approach to Moral Action: J.S. Mill, Bentham.

SECTION-D

10. Medical Ethics: Definition, Nature, Problems; Euthanasia.
11. Educational Ethics & Legal Ethics: Definition, Nature, Problems.
12. Business Ethics: Definition, Nature, Problems.

Recommended Readings:-**English Books:-**

1. Beauchamp T.L. & J.E. Childress, (Jr.), *Principles of Biomedical Ethics*, 2nd Ed., Oxford University Press, Oxford, 2001
2. Copi, I.M., *Introduction to Logic*, 6th ed., New York, Macmillan, 1982.
3. Singer, Peter, *Practical Ethics*, Cambridge University Press, 1993.
4. Titus, Harold H., *Ethics for Today*, Eurasia Publishing House, New Delhi, 1966.

Punjabi Books:-

1. ਵਜ਼ੀਰ ਸਿੰਘ ਅਤੇ ਹਰਨਾਮ ਸਿੰਘ, *ਤਰਕ ਗਿਆਨ ਦੇ ਮੁਢਲੇ ਨੇਮ*, (ਭਾਗ-1) (ਨਿਗਮਨ), ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ।
2. ਸ਼ਰਮਾ, ਪੀ.ਏ. ਅਤੇ ਵਜ਼ੀਰ ਸਿੰਘ, *ਤਰਕ ਗਿਆਨ ਦੀ ਜਾਣ-ਪਛਾਣ*, ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ।

SEMESTER-III

**PAPER- V, VI & VII, STREAM-4
PSYCHOLOGY
EXPERIMENTAL PSYCHOLOGY-I
(THEORY)**

Time: 3 Hours
Pass Marks: 35% of the subject
(Theory and Practical Separately)

Max. Marks: 100
Theory Marks: 75
Practical Marks: 25

Instructions for the Paper Setters:-

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

Experimental Method: Introduction to Experimental Method, Advantages and Disadvantages, Study of cause and effect relationship

Variables: Concept and Nature, Types of Variables, Stimulus, Organismic and Response Variables, Process of experimentation-manipulation and control of variables, Introduction to Experimental Designs

SECTION-B

Sensation and Perception: Types of sensations, Visual sensation, Structure and functions of the Eye, Theories of Colour Vision (Young-Helmholtz, Opponent-Process & Evolutionary), Auditory Sensation: Structure and functions of the Ear, Theories of Hearing, Cutaneous, Olfactory and Gustatory Sensations

SECTION-C

Attention: Concept and Nature of Attention, Characteristics of Attention

Perception: Concept, Nature and factors affecting perception, Approaches to Perception (Gestalt and Behaviouristic), Perception of Form, Shape, Depth and Distance, Perceptual Constancy

SECTION-D

Perception of Space and Movement:

Illusions: Types, causes and Theories

Statistics: Normal Probability Curve, Concept, Nature and Characteristics (Numericals of Areas under NPC only)

References:-

1. D. Amato, M.H.R. (2001): Experimental Psychology, Tata McGraw Hill, New Delhi.
2. Garrett, H.E. and Woodworth, R.S. (1969): Statistics in Psychology and Education. Vikils, Feffer and Simons Pvt. Ltd.
3. Kerlinger, P.N.(1988): Foundation of Behavioural Research, Surjeet Publications, New Delhi.
4. Postman, L. and Egan. J.P.: Experimental Psychology, Harper and Row, New York.
5. Schiffman, H.R. (1982): Sensation and Perceptions, John Willey and Sons.
6. Woodworth, R.S. and Schlosberg, H.(1954): Experimental Psychology, Holt, Rinehart and Winston, Inc.
7. Solso, R.L. (2007): Experimental Psychology: A Case Approach Pearson Education, New Delhi.
8. Sternberg, R.J. (2007): Cognitive Psychology, Thomson Wads Worth.

SEMESTER-III**PAPER- V, VI & VII, STREAM-4
PSYCHOLOGY****(PRACTICAL)****Marks: 25****Instructions for the Practical Examination:-**

Students are supposed to perform five practicals out of 6 mentioned in the syllabus. Practical examination will be of 3 hours duration. External examiner will conduct the practical examination. The students will perform one practical in the exam carrying 25 marks. Evaluation of the practical would be done on the basis of write-up of file book (5 Marks), performance and viva-voce (20 Marks) relating to the practicals. In case students have not completed 5 practicals, the examiner will deduct marks at the rate of 5 for each left practical out of total evaluation of the student. No reappear will be allowed in the practical examination. Fail in the practical will be considered fail overall in the subject.

Five Practical have to be performed out of the following:-

1. Role of Set in Perception
2. Span of Attention/Division of Attention.
3. Muller-Lyer Illusion
4. Figure-ground differentiation
5. Paired Comparison Method for Colour Preference
6. Reaction Time (Simple Vs. choice RT or Auditory vs Visual RT)

SEMESTER-III**PAPER- V, VI & VII, STREAM-4****SOCIOLOGY
SOCIETY IN INDIA****Time: 3 Hours****Max. Marks: 100****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

- (a) **Indian Society:** Features and Unity in Diversity.
 (b) **Caste:** Features, Functions, Changing patterns, Difference between caste and class.

SECTION-B

- (a) **Social Issues:** Communalism, Casteism, Gender, Human Rights.

SECTION-C

- (a) **Marriage:** Meaning, Types, Functions and Changes.
 (b) **Family:** Meaning, Types, Functions and Changes.
 (c) **Kinship:** Meaning and Terminology.

SECTION-D

- (a) **Society in India:** Rural, Urban and Tribal.

Recommended Books:-

1. Abraham, M. Francis: *Contemporary Sociology*, Oxford University, New Delhi, 2006.
2. Ahuja, Ram. 1999, *Society in India*. Jaipur: Rawat.
3. Atal, Yogesh. 2006, *Changing Indian Society*. Jaipur: Rawat.
4. Ghurye, G.S.: *Caste & Race in India*, Popular, Bombay, Punjabi Translations by N.S. Sodhi, Panjabi University, Patiala, 1962.
5. Hutton, J.H.: *Caste in India—Its Nature, Functions and Origin*, Oxford University Press, Delhi 1980.
6. Jayaraman, Raja: *Caste & Class, Dynamics of Inequality in Indian Society*, Hindustan Publishing Corporation, 1981.
7. Kapadia, K.M.: *Marriage and Family in India*, Oxford University Press, Calcutta, 1996.
8. Kapila, S: *A Textbook of Sociology, Part-I & II*, New Academic House, Jalandhar, 1990-91.
9. Kothari, Rajni (ed): *Caste in Indian Politics*, Orient Longman, Delhi, 1973.
10. Mandelbaum, David G.: *Society in India*, Popular Prakashan, Bombay, 1972.
11. Mukerji, D.P.: *Diversities: Essays in Economics, Sociology and Social Problems*, Manak, New Delhi, 2002.
12. Maclver, R.M. & Page, Charles H.: *Society- An Introductory Analysis*, Macmillan, London, 1974.
13. Sharma, K.L. 2007, *Indian Social Structure and Change*. Jaipur: Rawat.

**PAPER–VIII: DRUG ABUSE: PROBLEM, MANAGEMENT AND PREVENTION
(COMPULSORY PAPER)**

(Only for those students who have not studied this paper in Semester–I)

PROBLEM OF DRUG ABUSE

Time: 3 Hours

Max. Marks: 50

Instructions for the Paper Setters:-

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION–A

Meaning of Drug Abuse:

Meaning, Nature and Extent of Drug Abuse in India and Punjab.

SECTION–B

Consequences of Drug Abuse for:

Individual:	Education, Employment, Income.
Family	: Violence.
Society	: Crime.
Nation	: Law and Order problem.

SECTION–C

Management of Drug Abuse:

Medical Management: Medication for treatment and to reduce withdrawal effects.

SECTION–D

Psychiatric Management: Counselling, Behavioural and Cognitive therapy.

Social Management: Family, Group therapy and Environmental Intervention.

References:-

1. Ahuja, Ram (2003), *Social Problems in India*, Rawat Publication, Jaipur.
2. Extent, Pattern and Trend of Drug Use in India, Ministry of Social Justice and Empowerment, Government of India, 2004.
3. Inciardi, J.A. 1981. *The Drug Crime Connection*. Beverly Hills: Sage Publications.
4. Kapoor. T. (1985) *Drug epidemic among Indian Youth*, New Delhi: Mittal Pub.
5. Kessel, Neil and Henry Walton. 1982, *Alcoholism. Harmond Worth*: Penguin Books.
6. Modi, Ishwar and Modi, Shalini (1997) *Drugs: Addiction and Prevention*, Jaipur: Rawat Publication.

7. National Household Survey of Alcohol and Drug abuse. (2003) New Delhi, Clinical Epidemiological Unit, All India Institute of Medical Sciences, 2004.
8. Ross Coomber and Others. 2013, *Key Concept in Drugs and Society*. New Delhi: Sage Publications.
9. Sain, Bhim 1991, *Drug Addiction Alcoholism, Smoking obscenity* New Delhi: Mittal Publications.
10. Sandhu, Ranvinder Singh, 2009, *Drug Addiction in Punjab: A Sociological Study*. Amritsar: Guru Nanak Dev University.
11. Singh, Chandra Paul 2000. *Alcohol and Dependence among Industrial Workers*: Delhi: Shipra.
12. Sussman, S and Ames, S.L. (2008). *Drug Abuse: Concepts, Prevention and Cessation*, Cambridge University Press.
13. Verma, P.S. 2017, "*Punjab's Drug Problem: Contours and Characteristics*", Economic and Political Weekly, Vol. LII, No. 3, P.P. 40-43.
14. World Drug Report 2016, United Nations office of Drug and Crime.
15. World Drug Report 2017, United Nations office of Drug and Crime.

SEMESTER-IV**PAPER-I****LANGUAGE PROFICIENCY AND COMMUNICATION SKILLS****Credits 2****Time 1: 30 hrs****Total Marks: 50****Terminal: 35****Sessional: 15****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

Course Objectives:

After the completion of the course, the student teacher will be able to:

- Understand the concept and process of communication.
- Enhance his/her skills of listening, speaking, reading and writing.
- Develop the required communication skills necessary for classroom interaction.
- Develop a thorough understanding of linguistics and paralinguistic skills.

SECTION-A**COMMUNICATION SKILLS**

- a) Communication: Meaning, definitions, process, types, channels, objectives, principles, barriers of communication and how to remove the barriers of communication.
- b) Listening Skills: Meaning, process, importance, levels, barriers, techniques to improve listening abilities. Feedback skills- Importance, characteristics, steps for improving, role of modern technology in feedback.

SECTION-B

Speaking and Conversation Skills: Introduction, objectives, principles, components, understanding the cues, forms of polite speech. Conversation- types, vital points of good conversation.

SECTION-C**PHONETICS**

- a) The Sounds: Language, phonetics, phonetic transcription, IPA, uses of phonetic transcription, consonant sounds, nasal and other components, vowels.

SECTION-D

- a) Classification of Phonetic sounds: Consonants, vowels, the syllable- structure, strong and weak syllables, and types of syllables.
- b) Paralinguistic's: Stress, intonation and tempo.

SEMESTER-IV**Sessional Work:****Performance in unit tests and house examination 05 Marks****Files to be prepared and submitted for evaluation 10 Marks****Assignments on the following**

Writing of letters (formal, informal), Reports, minutes of the meeting

- Oral presentation on any current topic

References:-

- Block, C.C. (1997). *Teaching the Language Arts*, 2nd Ed. Allyn and Bacon
- McKay. (1995). *The Communication Skills Book, 2nd Ed.* New Harbinger Publications.
- Hornby, A. S. (2001). *Oxford Advanced Learner's Dictionary*, OUP
- Thomsan, A.J., & Martinet. (2002). *A Practical English Grammar*. OUP

SEMESTER-IV**PAPER-II: ENGLISH (COMPULSORY)****Time: 3 Hours****Max. Marks: 50****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

Important Note: The textbook *Making Connections* (3rd edition) is significantly different from its 2nd edition. The third edition (by Kenneth J Pakenham, Jo McEntire, Jessica Williams) is to be followed for this course.

Texts Prescribed:-

1. *Making Connections* by Kenneth J. Pakenham, Jo McEntire, Jessica Williams, 3rd Edition. CUP.
2. *Moments in Time: An Anthology of Poems*, GNDU, Amritsar.
3. *English Grammar in Use* (Fourth Edition) by Raymond Murphy, CUP.

Syllabus is divided into four sections as mentioned below:

SECTION-A

English Grammar in Use (Fourth Edition) by Raymond Murphy, CUP: Revision of Units 26-37, 42-48, 92- 97, 113-120.

SECTION-B

Moments in Time: Poems at Sr. No. 7-12

SECTION-C

Making Connections by Kenneth J. Pakenham, 3rd Edn. CUP: Section-III (Aspects of Language) and Section-IV (Sustaining Planet Earth)

SECTION-D

Essay type question based on the section “Beyond the reading” from the text, *Making Connections*.

SEMESTER-IV

PAPER-III: PUNJABI (COMPULSORY) ਪੰਜਾਬੀ (ਲਾਜ਼ਮੀ)

ਸਮਾਂ ਤਿੰਨ ਘੰਟੇ

ਕੁਲ ਅੰਕ : 50

ਅੰਕ-ਵੰਡ ਅਤੇ ਪਰੀਖਿਅਕ ਲਈ ਹਦਾਇਤਾਂ

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੇ ਚਾਰ ਭਾਗ ਹੋਣਗੇ। ਹਰ ਭਾਗ ਵਿਚ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
2. ਵਿਦਿਆਰਥੀ ਨੇ ਕੁੱਲ ਪੰਜ ਪ੍ਰਸ਼ਨ ਕਰਨੇ ਹਨ। ਹਰ ਭਾਗ ਵਿਚੋਂ ਇਕ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੈ। ਪੰਜਵਾਂ ਪ੍ਰਸ਼ਨ ਕਿਸੇ ਵੀ ਭਾਗ ਵਿਚੋਂ ਕੀਤਾ ਜਾ ਸਕਦਾ ਹੈ।
3. ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦੇ ਦਸ ਅੰਕ ਹਨ।
4. ਪੇਪਰ ਸੈੱਟ ਕਰਨ ਵਾਲਾ ਜੇਕਰ ਚਾਹੇ ਤਾਂ ਪ੍ਰਸ਼ਨਾਂ ਦੀ ਵੰਡ ਅੱਗੋਂ ਵੱਧ ਤੋਂ ਵੱਧ ਚਾਰ ਉਪ-ਪ੍ਰਸ਼ਨਾਂ ਵਿਚ ਕਰ ਸਕਦਾ ਹੈ।

ਪਾਠ-ਕ੍ਰਮ ਅਤੇ ਪਾਠ-ਪੁਸਤਕਾਂ

ਸੈਕਸ਼ਨ - ਏ

ਮੇਰੀ ਜੀਵਨ ਗਾਥਾ (ਸਵੈ-ਜੀਵਨੀ) : ਡਾ. ਦੀਵਾਨ ਸਿੰਘ,
ਕਸਤੂਰੀ ਲਾਲ ਐਂਡ ਸੰਨਜ਼, ਅਮ੍ਰਿਤਸਰ
(ਨਾਇਕ ਬਿੰਬ/ਸਵੈ ਜੀਵਨੀ ਦੇ ਤੌਰ ਤੇ ਪਰਖ/ਵਾਰਤਕ ਸ਼ੈਲੀ)

ਸੈਕਸ਼ਨ - ਬੀ

ਫ਼ਾਸਲੇ (ਨਾਟਕ) : ਜਤਿੰਦਰ ਬਰਾੜ,
ਨਾਨਕ ਸਿੰਘ ਪੁਸਤਕਮਾਲਾ, ਅਮ੍ਰਿਤਸਰ
(ਵਿਸ਼ਾ/ਸਾਰ/ਨਾਟਕ ਕਲਾ)

ਸੈਕਸ਼ਨ - ਸੀ

(ੳ) ਲੇਖ ਰਚਨਾ (ਸਮਾਜਕ, ਸਭਿਆਚਾਰਕ, ਇਤਿਹਾਸਕ ਅਤੇ ਵਿਦਿਅਕ ਸਰੋਕਾਰਾਂ ਸੰਬੰਧੀ)
(ਅ) ਅਖਬਾਰ ਨੂੰ ਇਸ਼ਤਿਹਾਰ (ਨਿੱਜੀ, ਦਫ਼ਤਰੀ)

ਸੈਕਸ਼ਨ - ਡੀ

ਵਿਆਕਰਨ

(ੳ) ਸ਼ਬਦ-ਜੋੜਾਂ ਦੇ ਨਿਯਮ
(ਅ) ਗੁਰਮੁਖੀ ਲਿਪੀ ਦੀਆਂ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ

SEMESTER-IV

ਮੁੱਢਲੀ ਪੰਜਾਬੀ
ਪੰਜਾਬ ਦਾ ਇਤਿਹਾਸ ਤੇ ਸੱਭਿਆਚਾਰ
 (In lieu of Compulsory Punjabi)

Time: 3 Hrs.

Marks: 50

ਨੋਟ: ਵਿਦਿਆਰਥੀ ਨੂੰ 5 ਪ੍ਰਸ਼ਨ ਦਾ ਜਵਾਬ ਦੇਣਾ ਹੋਵੇਗਾ। ਹਰ ਸੈਕਸ਼ਨ ਵਿੱਚੋਂ ਇੱਕ ਪ੍ਰਸ਼ਨ ਦਾ ਜਵਾਬ ਦੇਣਾ ਲਾਜ਼ਮੀ ਹੈ। ਪੰਜਵਾਂ ਪ੍ਰਸ਼ਨ ਉਹ ਕਿਸੇ ਵੀ ਸੈਕਸ਼ਨ ਵਿੱਚੋਂ ਕਰ ਸਕਦਾ ਹੈ।

SECTION-A

ਸਿੱਖ ਧਰਮ ਦੀ ਸਥਾਪਨਾ: ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਜੀ ਦਾ ਜੀਵਨ ਤੇ ਉਪਦੇਸ਼ (1469-1539): ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਜੀ ਦਾ ਜੀਵਨ, ਰੱਬ ਸਬੰਧੀ ਵਿਚਾਰ, ਗੁਰੂ ਦਾ ਮਹੱਤਵ, ਸਿੱਖਿਆਵਾਂ। ਸੰਗਤ-ਪੰਗਤ, ਗੁਰਗੱਦੀ ਦੀ ਸਥਾਪਨਾ ਇਸ ਦਾ ਸਮਾਜ ਤੇ ਪ੍ਰਭਾਵ।

SECTION-B

ਸਿੱਖ ਪੰਥ ਦਾ ਵਿਕਾਸ: ਗੁਰੂ ਅੰਗਦ ਦੇਵ ਜੀ (1539-1522): ਗੁਰੂ ਅੰਗਦ ਦੇਵ ਜੀ ਦਾ ਸਿੱਖ ਧਰਮ ਦੇ ਵਿਕਾਸ ਵਿੱਚ ਯੋਗਦਾਨ, ਗੁਰਮੁੱਖੀ ਲਿੱਪੀ।

SECTION-C

ਗੁਰੂ ਅਮਰਦਾਸ ਤੋਂ ਗੁਰੂ ਰਾਮਦਾਸ ਜੀ ਤੱਕ (1522-1581): ਗੁਰੂ ਅਮਰਦਾਸ ਜੀ ਦਾ ਸਿੱਖ ਧਰਮ ਦੇ ਵਿਕਾਸ ਵਿੱਚ ਯੋਗਦਾਨ: ਗੋਇੰਦਵਾਲ ਸਾਹਿਬ ਦੀ ਸਥਾਪਨਾ, ਮੰਜੀ ਪ੍ਰਥਾ ਅਤੇ ਸਮਾਜਿਕ ਸੁਧਾਰ, ਗੁਰੂ ਰਾਮਦਾਸ ਜੀ ਦਾ ਯੋਗਦਾਨ, ਰਾਮਦਾਸਪੁਰਾ ਦੀ ਸਥਾਪਨਾ, ਮਸੰਦ ਪ੍ਰਥਾ।

SECTION-D

ਗੁਰੂ ਅਰਜਨ ਦੇਵ ਜੀ ਦੇ ਸਮੇਂ ਸਿੱਖ ਪੰਥ ਦਾ ਵਿਕਾਸ (1581-1606): ਗੁਰੂ ਅਰਜਨ ਦੇਵ ਜੀ ਦਾ ਯੋਗਦਾਨ, ਹਰਿਮੰਦਰ ਸਾਹਿਬ ਦਾ ਨਿਰਮਾਣ, ਆਦਿ ਗ੍ਰੰਥ ਸਾਹਿਬ ਦਾ ਸੰਕਲਨ, ਗੁਰੂ ਅਰਜਨ ਦੇਵ ਜੀ ਦੀ ਸ਼ਹਾਦਤ ਤੇ ਇਸਦਾ ਮਹੱਤਵ।

Suggested Readings:-

1. Kirpal Singh (ed.), **History and Culture of the Punjab, Patiala, Part II**, 1990 3rd Edition.
2. Fauja Singh (ed.), **History of the Punjab**, Vol.III, Patiala, 1987.
3. G.S Chhabra, **The Advanced of the Punjab**, Vol. I
4. J.S Grewal, **The Sikhs of the Punjab**, The New Cambridge History of India, Cambridge, 1991.
5. Khushwant Singh **A History of Sikhs**, Vol. I OUP, New Delhi, 1990.

SEMESTER-IV

Punjab History & Culture (From 1605 to 1849 A.D)
(Special Paper in lieu of Punjabi compulsory)
(For those students who are not domicile of Punjab)

Time: 3 Hours**Max. Marks: 50****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

1. Politicization of Sikhism under Guru Hargobind.
2. Martyrdom of Guru Teg Bahadur

SECTION-B

3. Creation of Khalsa
4. Khalsa and its impact on the Punjab

SECTION-C

5. Rise of Banda Bahadur and his achievements.
6. Rise of Misls.

SECTION-D

7. Ranjit Singh's rise to power; Civil, Military and Land Revenue Administration.
8. Art and Architecture, Fair, Festivals and Folk Music in the Punjab during the medieval period.

Suggested Readings:-

1. Chopra P.N., Puri, B.N., & Das, M.N.(1974), *A Social, Cultural & Economic History of India*. Vol.II, Macmillan India Limited, New Delhi.
2. Grewal, J.S. (1994). *The Sikhs of the Punjab*, Cambridge University Press, New Delhi.
3. Singh, Fauja (1972). *A History of the Sikhs*, Vol. III, Patiala: Punjabi University.
4. Singh, Kushwant (2011). *A History of the Sikhs- Vol. I (1469-1839)*. New Delhi: Oxford University Press.
5. Singh, Kirpal (1990). *History and Culture of the Punjab-Part II (Medieval Period)*. Patiala: Publication Bureau, Punjabi University.

SEMESTER-IV**PAPER-IV & V, STREAM-1
ENGLISH (ELECTIVE)****Time: 3 Hours****Max. Marks: 100****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

Books Prescribed:-

1. *Modern Prose*, G.N.D.U. Amritsar
2. *Dispelling Silence: Short Stories*
3. *New Directions* (Part 4-5)
4. Transcription of Words

Course Contents:-

1. *Modern Prose*—Essays at serial No. 3, 4,5,7,11,12
2. *Dispelling Silence* – Stories at serial No. 1, 2, 6, 7, 8, 10, 11, 12
3. *New Directions* (Part 4-5)
4. Words for Transcription: accommodation, appreciation, capability, civilization, examination, pronunciation, university, terminology, utility, nationality, objectionable, rationality, testimonial, vocabulary, superintendent, satisfactory, rehabilitate, consultation, dictionary, veterinary, espionage, singularity, tranquility, interference, pavilion, superiority.

The syllabus is divided in four units as mentioned below:

SECTION-A

Modern Prose—Essays at serial No. 3, 4,5,7,11,12

SECTION-B

Dispelling Silence – Stories at serial No. 1, 2, 6, 7, 8, 10, 11, 12

SECTION-C

New Directions (Part 4-5)

SECTION-D

Words for Transcription: accommodation, appreciation, capability, civilization, examination, pronunciation, university, terminology, utility, nationality, objectionable, rationality, testimonial, vocabulary, superintendent, satisfactory, rehabilitate, consultation, dictionary, veterinary, espionage, singularity, tranquility, interference, pavilion, superiority.

Distribution of Marks & Instructions for the Paper Setters:-

There are four sections in the syllabus. One question with internal choice shall be set from each section. Each question will carry 20 marks. A question may have sub-parts (not exceeding 4) carrying appropriate weightage. The students are required to attempt five questions in all, selecting at least one question from each section.

SECTION–A

Two questions will be set from **Section–A** of the syllabus. One essay type question based on the theme, plot, characterization etc would be set carrying eight marks. The second part of the question would carry three short answer questions. Each question would carry four marks. The students would be required to attempt any one of the two sets of questions. (8+3x4=20)

SECTION–B

Two questions will be set from **Section–B** of the syllabus. One essay type question based on the theme, plot, and characterization would be set carrying eight marks. The second part of the question would carry three short answer questions each requiring a brief answer, related to incidents, anecdotes, minor characters, the use of figure of speech, tone and style etc. from the prescribed short stories will be set in the paper. Each question would carry four marks. The students would be required to attempt any one of the two sets of questions. (8+3x4=20)

SECTION–C

Two questions will be set from **Section–C** of the syllabus. One essay type question requiring answer on argument, rhetorical devices, text development strategies, tone, and style etc. from one of the prescribed essays would be set carrying eight marks. The second part of the question would carry three short answer questions based on the exercises in the text book *New Directions*. Each question would carry four marks. The students would be required to attempt any one of the two sets of questions. (8+3x4=20)

SECTION–D

Two questions would be set from **Section–D** of the syllabus. Ten words for transcription (five out of the prescribed list and any other five polysyllabic words) would be set in each question. Each word would carry two marks. The students would be required to attempt any one of the two sets of questions. (10x2=20)

SEMESTER-IV

PAPER-IV & V, STREAM-1
PUNJABI (ELECTIVE) ਪੰਜਾਬੀ (ਇਲੈਕਟਿਵ)

ਸਮਾਂ: ਤਿੰਨ ਘੰਟੇ

ਕੁਲ ਅੰਕ : 50

ਅੰਕ-ਵੰਡ ਅਤੇ ਪਰੀਖਿਅਕ ਲਈ ਹਦਾਇਤਾਂ

1. ਪ੍ਰਸ਼ਨ ਪੱਤਰ ਦੇ ਚਾਰ ਭਾਗ ਹੋਣਗੇ। ਹਰ ਭਾਗ ਵਿਚ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।
2. ਵਿਦਿਆਰਥੀ ਨੇ ਕੁੱਲ ਪੰਜ ਪ੍ਰਸ਼ਨ ਕਰਨੇ ਹਨ। ਹਰ ਭਾਗ ਵਿਚੋਂ ਇਕ ਪ੍ਰਸ਼ਨ ਲਾਜ਼ਮੀ ਹੈ। ਪੰਜਵਾਂ ਪ੍ਰਸ਼ਨ ਕਿਸੇ ਵੀ ਭਾਗ ਵਿਚੋਂ ਕੀਤਾ ਜਾ ਸਕਦਾ ਹੈ।
3. ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਦੇ ਦਸ ਅੰਕ ਹਨ।
4. ਪੇਪਰ ਸੈਟ ਕਰਨ ਵਾਲਾ ਜੇਕਰ ਚਾਹੇ ਤਾਂ ਪ੍ਰਸ਼ਨਾਂ ਦੀ ਵੰਡ ਅੱਗੋਂ ਵੱਧ ਤੋਂ ਵੱਧ ਚਾਰ ਉਪ-ਪ੍ਰਸ਼ਨਾਂ ਵਿਚ ਕਰ ਸਕਦਾ ਹੈ।

ਸੈਕਸ਼ਨ- ਏ

ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ (1701 ਤੋਂ 1900)

(ਸੰਪਾ. ਡਾ. ਰਤਨ ਸਿੰਘ ਜੱਗੀ), ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ, 1992.

(ੳ) ਸਾਹਿਤਕ ਰੂਪਾਂ ਦਾ ਇਤਿਹਾਸ (ਨਿਕਾਸ ਤੇ ਵਿਕਾਸ),

(ਅ) ਸਾਹਿਤਕ ਰੂਪਾਂ ਦੀਆਂ ਧਾਰਾਵਾਂ ਤੇ ਪ੍ਰਵਿਰਤੀਆਂ

ਸੈਕਸ਼ਨ- ਬੀ

ਸਭਿਆਚਾਰ ਅਤੇ ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ (ਨਿਬੰਧ ਸੰਗ੍ਰਹਿ)

(ਸੰਪਾ. ਡਾ. ਰਣਜੀਤ ਸਿੰਘ ਬਾਜਵਾ ਅਤੇ ਪ੍ਰਿੰਸੀਪਲ ਵੀਰ ਸਿੰਘ ਰੰਧਾਵਾ),

ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਯੂਨੀਵਰਸਿਟੀ, ਅੰਮ੍ਰਿਤਸਰ, 2007.

(ਵਿਸ਼ਾ-ਵਸਤੂ/ਸਾਰ/ਵਾਰਤਕ ਸ਼ੈਲੀ)

ਸੈਕਸ਼ਨ- ਸੀ

I. ਦਿੱਤੇ ਪੈਰ੍ਹੇ ਵਿਚੋਂ ਸ਼ਬਦ-ਜੋੜਾਂ ਦੀ ਸੁਧਾਈ

II. ਦਿੱਤੇ ਪੈਰ੍ਹੇ ਨੂੰ ਵਿਸਰਾਮ ਚਿੰਨ੍ਹ ਲਾਉਣੇ

ਸੈਕਸ਼ਨ- ਡੀ

ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਅਤੇ ਗੁਰਮੁਖੀ ਲਿੱਪੀ : ਮੁਢਲੀ ਜਾਣਕਾਰੀ

(ੳ) ਪੰਜਾਬੀ ਭਾਸ਼ਾ : ਨਿਕਾਸ ਅਤੇ ਵਿਕਾਸ

(ਅ) ਗੁਰਮੁਖੀ ਲਿੱਪੀ : ਨਿਕਾਸ ਅਤੇ ਵਿਕਾਸ

SEMESTER-IV

PAPER-IV & V, STREAM-1
HINDI (ELECTIVE)

उपन्यास , नाटक : सैद्धांतिकी, व्याकरण तथा भक्तिकाल

समय- 3 घण्टे

पूर्णांक: 100

Instructions for the Paper Setters:-

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

सैक्शन-ए

व्याख्या के लिए निर्धारित कृति

निर्मला : मुंशी प्रेमचन्द, मिस्टर अभिमन्यु: लक्ष्मी नारायण लाल

सैक्शन-बी

मुंशी प्रेमचन्द और लक्ष्मीनारायण लाल का सामान्य परिचय

निर्मला उपन्यास एवं मिस्टर अभिमन्यु नाटक से सम्बन्धित प्रश्न : तात्त्विक समीक्षा, सार, उद्देश्य, चरित्र-चित्रण आदि से सम्बन्धित प्रश्न।

सैद्धांतिकी: उपन्यास तथा नाटक की परिभाषा एवं तत्व

सैक्शन-सी

भक्तिकाल: परिस्थितियां, स्वर्ण युग, काव्यधाराएं , विशेषताएं

सैक्शन-डी

सामान्य प्रचलित मुहावरे तथा लोकोक्तियां : अर्थ और वाक्य प्रयोग
विराम चिह्न, सामान्य प्रचलित समास, कारक(अनुप्रयोग)**सहायक पुस्तक**

व्याकरण के लिए कोई भी सामान्य पुस्तक देखे।

SEMESTER-IV**PAPER-IV & V, STREAM-1****PHILOSOPHY****INDUCTIVE LOGIC AND ENVIRONMENTAL ETHICS****Lectures to be delivered: 6+4=10 per week****Time: 3 Hours****Pass Marks: 35%****Marks: 100****Theory Marks: 80****Practical Marks: 20****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

1. Induction: Definition and Characteristics of Induction; Types of Induction (Simple Enumeration, Scientific Induction and Analogy); Difference between Deduction and
2. Causation: Nature of Cause, Plurality of Causes (Mill), Uniformity of Nature.
3. Definition, Nature and Conditions of Valid Hypothesis; and its uses.

SECTION-B

4. Indian Logic: Definition, Nature and Scope.
5. Nyaya Syllogism: Difference between Nyaya Syllogism and Aristotelian Syllogism
6. Anumana in Nyaya Darshan: Meaning, Kinds, Panca-avayava, Vyapti.

SECTION-C

7. Environmental Ethics: Definition, Nature, Problems.
8. Ecology: Definition, Scope and its relation to Ethics.
9. Man-Nature Relationship (Indian Tradition).

SECTION-D

10. Population: Meaning, Population Dynamics, Migration, Problem, Causes of Over-Population and Solutions.
11. Pollution: Kinds, Causes and Solutions.
12. Nuclear Threat: Challenges and Solutions.

Recommended Readings:-**English Books:-**

1. Attfield, R., *Environmental Philosophy: Principles and Prospects*, Aldershot, Avebury, 1994.
2. Barlingay, S.S., *A Modern Introduction to Indian Logic*, National Publishing House, Delhi, 1965.
3. Chahal, Surjit Kaur, *Environment and The Moral Life, Towards A New Paradigm*, Ashish Publishing House, New Delhi, 1994.
4. Cohen and Negal, *Introduction to Logic and Scientific Methods*, Allied Publishers, Bombay, 1976.
5. Dreyer, Oleg, *Ecological Problems of Developing Countries*, Ajanta Publications, Delhi, 1989.
6. Facione, Peter A., *Logic and Logical Thinking, A Modular Approach*, McGraw Hill, New York, 1978.

Punjabi Books:-

1. ਤ੍ਰਿਲੋਚਨ ਸਿੰਘ, ਵਾਤਾਵਰਣ : ਦਰਪੇਸ਼ ਸਮੱਸਿਆਵਾਂ, ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ, 1995.
2. ਨਿਰਾਕਾਰੀ, ਆਰ.ਡੀ., ਉਚੇਰਾ ਤਰਕ ਸ਼ਾਸਤਰ, ਪਬਲੀਕੇਸ਼ਨਜ਼ ਬਿਊਰੋ, ਪਟਿਆਲਾ।
3. ਵਜ਼ੀਰ ਸਿੰਘ ਅਤੇ ਹਰਨਾਮ ਸਿੰਘ, ਤਰਕ ਗਿਆਨ ਦੀ ਜਾਣ-ਪਛਾਣ : (ਭਾਗ-2) (ਆਗਮਨ), ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ।

Hindi Books:-

1. ਤਿਵਾਰੀ, ਕੇਦਾਰਨਾਥ, ਭਾਰਤੀਯ ਤਰਕਸ਼ਾਸਤਰ ਪਰਿਚਯ.

SEMESTER-IV

PAPER-IV & V, STREAM-1
PSYCHOLOGY
EXPERIMENTAL PSYCHOLOGY-II
(THEORY)

Time: 3 Hours

Pass Marks: 35% of the subject
(Theory and Practical Separately)

Max. Marks: 100**Theory Marks: 75****Practical Marks: 25****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

Psychophysics: Concept of Psychophysics, Physical V/S Psychological continua, Point of Subjective Equality, Weber- Fechner law, Concept of Absolute and Differential Thresholds, Determination of AL and DL by Methods of Limits, Method of Constant Stimuli & Method of Average Error

SECTION-B

Memory: Concept and Nature, Encoding, Storage, Retrieval, Types of Memory

Mneumonics: An Introduction to the concept of Mneumonics, Constructive memory, Implicit memory & Eyewitness memory. Methods of Retention

Forgetting: Concept and Nature, Factors affecting Forgetting, Theories of Forgetting (Decay, Interference and Retrieval failure)

SECTION-C

Thinking and Problem Solving: Nature and Types of Thinking. Nature of Problem Solving, Stages of Problem Solving, Factors, Role of Set in Problem Solving

Concept Formation: Nature, Types and Processes

SECTION-D

Correlation: Concept, Types of Correlation, Nature and Characteristics, Rank Order and Product Moment Methods (Numericals for Individual data), Chi-square Test

References:-

1. D'Amato, M.R.: Experimental Psychology: Methodology Psychophysics and Learning, McGraw Hill Company, New Delhi, 1970.
2. Postman, L and Egan, J.P.: Experimental, Psychology, Harper and Row, New York.
3. Woodworth, R.S. and Schlosberg, H.: Experimental Psychology, New York; Holt, Rinehart and Winston Inc. 1954.
4. Galotti, K.M. (2007): Cognitive Psychology in and Out of the Laboratory, Thomson Wads Worth.

SEMESTER-IV**PAPER-IV & V, STREAM-1
PSYCHOLOGY****(PRACTICAL)****Marks: 25****Instructions for the Practical Examination:**

Students are supposed to perform five practicals out of 6 mentioned in the syllabus. Practical examination will be of 3 hours duration. External Examiner will conduct the practical examination. The students will perform one practical in the exam carrying 25 marks. Evaluation of the practical would be done on the basis of write-up of file book (5 Marks), performance and viva-voce (20 Marks) relating to the practicals. In case students have not completed 5 practicals, the examiner will deduct marks at the rate of 5 for each left practical out of total evaluation of the student. No reappear will be allowed in the practical examination. Fail in the practical will be considered fail overall in the subject.

Five Practical have to be performed out of the following:

1. Measurement of Differential Threshold
2. Recall Vs Recognition Method
3. Retroactive inhibition
4. Problem-Solving
5. Concept formation.
6. Immediate Memory Span

SEMESTER-IV**PAPER-IV & V, STREAM-1
SOCIOLOGY****SOCIAL CHANGE IN INDIA****Time: 3 Hours****Marks: 100****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

- a) **Social Change:** Meaning and Forms: Evolution, Revolution, Progress and Development.

SECTION-B

- a) **Factors of Social Change:** Demographic, Education, Industrialization, Legislation, Urbanizaion.

SECTION-C

- a) **Processes of Change:** Sanskritization, Westernization, Modernization, Secularization, Globalization.

SECTION-D

- a) **Challenges of Social Change:** Dowry, Domestic Violence, Divorce, Problems of elderly, Female foeticide.

Books Recommended:-

1. Ahuja, Ram: *Social Problems*, Rawat Publishers, New Delhi, 1992.
2. Abraham, M. Francis: *Contemporary Sociology*, Oxford University, New Delhi, 2006.
3. Gill, S.S.: *The Pathology of Corruption*, Harper Collin Publishers, New Delhi, 1998.
4. Kapila, S: *A Textbook of Sociology*, Part-I & II, New Academic House, Jalandhar, 1990-91.
5. Kuppuswamy, B.: *Social Change in India*, Vikas, Delhi, 1975.
6. Macionis, John.J and Ken Plumer. 2014, *Sociology: A Global Introduction*. London: Pearson.
7. Maclver, R.M. & Page, Charles H.: *Society, An Introductory Analysis*, Macmillan, London, 1974.
8. Srinivas, M.N.: *Social Change in Modern India*, Orient Longman, Bombay, 1972.

SEMESTER-IV**PAPER-IV & V, STREAM-2****MATHEMATICS****PAPER-I: STATICS AND VECTOR CALCULUS****Time: 3 Hours****Marks: 50****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

Composition and resolution of forces (parallelogram law, triangle law, polygon law, Lami's Theorem, $(\lambda-\mu)$ theorem). Resultant of a number of coplanar forces, parallel forces.

Moments, Varignon's theorem of moments, Couples, Resultant of two Coplanar Couples, Equilibrium of two coplanar couples, Resultant of a force and a couple. Equilibrium of coplanar forces.

SECTION-B

Friction, Laws of friction, Equilibrium of a particle on a rough plane. Centre of Gravity: Centre of gravity of a rod, triangular lamina, solid hemisphere, hollow hemisphere, solid cone and hollow cone.

SECTION-C

Vector differentiation, Gradient, divergence and curl operators, line integrals, Vector identity, Vector integration.

SECTION-D

Theorems of Gauss, Green, Stokes and problems based on these.

Books Recommended:-

1. S.L. Loney: Statics, Macmillan and Company, London.
2. R.S. Verma: A Text Book on Statics, Optical Pvt. Ltd., Allahabad.
3. Spiegel, M.R.: Introduction to Vector Calculus and Tensor.
4. Spiegel, M.R.: Vector Analysis.

SEMESTER-IV**PAPER-IV & V, STREAM-2
MATHEMATICS****PAPER-II: SOLID GEOMETRY****Time: 3 Hours****Marks: 50****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

Cylinder as surface generated by a line moving parallel to a fixed line and through fixed curve. Different kinds of cylinders such as right circular, elliptic, hyperbolic and parabolic in standard forms

SECTION-B

Cone with a vertex at the origin as the graph of homogeneous equation of second degree in x, y, z . Cone as a surface generated by a line passing through a fixed curve and fixed point outside the plane of the curve, right circular and elliptic cones.

SECTION-C

Equation of surface of revolution obtained by rotating the curve $f(x, y) = 0$ about the z -axis in the form of $f(x^2 + y^2, z) = 0$. Equation of ellipsoid, hyperboloid and paraboloid in standard forms.

SECTION-D

Surfaces represented by general equation of 2nd degree $S = 0$. Tangent lines, tangent planes and Normal plane.

Books Recommended:-

1. Narayan, S.: Analytical Solid Geometry, Sultan Chand & Sons (2005).
2. Kreyszig, E.: Advanced Engineering Mathematics.

SEMESTER-IV

PAPER-IV & V, STREAM-2
COMPUTER SCIENCEDATA STRUCTURES & PROGRAMMING LANGUAGE USING C++
(THEORY)

Time: 3 Hours
4 Hours/week

Max. Marks: 100
Theory Marks: 75
Practical Marks: 25

Instructions for the Paper Setters:-

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION- A

Data Structure: Introduction to elementary Data Organization, Common Operation on Data Structures, Algorithm Complexity, Big O Notation, Time-Space Trade off between Algorithm.

Arrays: Array Defined, Representing Arrays in memory, Various operations on Linear arrays, Multi Dimensional arrays.

Linked Lists: Types of Linked Lists, representing linked list in memory, advantages of using linked lists over arrays, Various operations of linked lists.

SECTION-B

Stacks: Description of STACK structure, Implementation of stack, using arrays and linked lists, application of stack-converting Arithmetic expression from infix notational to polish and their subsequent evaluation, quicksort technique to sort an array.

Queues: Description of queue structure, Implementation of queue using arrays and linked lists, description or priorities of queues, dequeues.

SECTION-C

Sorting and Searching : Sorting Algorithms, bubble sort, selection sort, insertion sort, quick sort, merge sort, heap sort, searching Algorithms, linear search and binary search.

SECTION-D

Object Oriented Programming: Objects & Classes, Constructor & Destructor, Operator Overloading, Overloading unary operators, Overloading binary operators, Data conversion, Pitfalls of operator overloading and conversion, Inheritance, Derived class and base, Derived class constructor. Overloading member functions, Inheritance in the English distance class, class hierarchies, Public & Private inheritance, Level of inheritance, Polymorphism, problems with single inheritance, multiple inheritance

References:

1. Seymour Lischutz, *Theory and Problems of Data Structures*.
2. *Schaum's Outline Series*, McGraw Hill Company.
3. Tanenbaum, *Data Structure Using C++*

130

B.A. B.ED. (FOUR YEARS INTEGRATED DEGREE PROGRAMME)

SEMESTER-IV

**PAPER-IV & V, STREAM-2
COMPUTER SCIENCE**

**DATA STRUCTURES & PROGRAMMING LANGUAGE USING C++ LAB
(PRACTICAL)**

2 Hours/week

Marks: 25

Practical based on Data Structures & Programming Language Using C++

SEMESTER-IV**PAPER-IV & V, STREAM-2
ECONOMICS****INTERNATIONAL ECONOMICS AND PUBLIC FINANCE****Time: 3 Hours****Max. Marks: 100****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

International Trade: Internal and External Trade. Classical and Heckscher. Ohlin Theories, Gains from Trade, Terms of Trade, (gross, net and income terms of trade). Trade and economic development.

Commercial Policy: Free trade vs. protection, rationale of a protectionist policy in less developed area. GATT & WTO (Introductory).

SECTION-B

Balance of Payments: Meaning and components of balance of payments, Methods for correcting adverse balance of payments, devaluation and direct control.

Rate of Exchange: Meaning and determination, Fixed and flexible exchange rates.

SECTION-C

Public Finance: Nature, scope importance.

Public Expenditure: Meaning, principles, importance, effect of public expenditure on production and distribution.

SECTION-D

Taxes: Meaning, classification, features of a good taxation system, canons of taxation, incidence and impact of taxation.

Public Debt: Meaning, objectives, importance, its burden.

Recommended Texts

1. Sodersten, B.O.: International Economics, Macmillan, London, 1980.
2. Salvatore, B.: International Economics (1990), Macmillan Publishing Company, New York, 1975.
3. Maclean and: International Institutions in Trade Snowdown and Finance (1981).
4. Aggarwal, M.R.: International Institutions and Development in Developing Countries, Deep & Deep Publications, New Delhi, 2001.
5. Musgrave, R.A.: Theory of Public Finance.
6. Taylorm Philip: The Economics of Public Finance.
7. Buchanan, J.M.: The Public Finance.
8. Baltin, H.: Public Finance.
9. Herber, B.P.: Modern Public Finance.

SEMESTER-IV**PAPER-IV & V, STREAM-3
HISTORY****HISTORY OF THE PUNJAB (AD 1469-1799)****Time: 3 Hours****Max. Marks: 100****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

1. **Sources:** Geographical and Physical features, Historical literature in Persian and Punjabi; Religious literature; Administrative records and documents; European travellers' accounts, Non-literary sources: numismatics and paintings; **Socio-Religious condition of the Punjab around 1500 A.D.:** The Sunnis; the Shias; the Sufis, the Brahmans; the Jogis; the Vaishnava bhakti and the saints.
2. **Foundation of Sikh Panth: Guru Nanak Dev and his Teachings:** Early life, Conception of God, Importance of the Guru, Insistance on right conduct and earnest profession; Institution of community kitchen (Langer) and Congregational worship (sangat), Succession to Guruship.

SECTION-B

3. **Development of the Sikh Panth: Guru Angad Dev to Guru Arjan Dev:** Increasing number of sangats: Sikh ceremonies; the Manji and Masand system, The founding of the sacred places, The Harimandir. Compilation of the Adi Granth.
4. **Transformation of the Sikh Panth: Guru Hargobind to Guru Tegh Bahadur:** Martyrdom of Guru Arjan Dev and Guru Hargobind's response; Armed conflict with the state; Circumstances leading to the accession and martyrdom of Guru Tegh Bahadur.

SECTION-C

5. **Creation of Khalsa:** Meaning; Circumstances leading to the creation of the Khalsa (1699); New Social order; Conflict with the Hill chiefs and Mughal administrators; Legacy.
6. **Banda Bahadur:** Early life of Banda Bahadur and his meeting with Guru Gobind Singh; His political activities upto the conquest of Sarhind; Establishment of an independent rule; Imperial campaign against Banda.

SECTION-D

7. **Political Struggle (1716-48):** Position of the Sikhs; Repression and conciliation by the Mughal governors, Abdus Samad Khan and Zakaria Khan (1716-1745), Ghallughara, Sikh-Afghan struggle (1752-65); Occupation of Lahore, the striking of the coin; Causes of Sikh success against the Mughals and Afghans; **Leading Sardars and Territories:** Nawab Kapur Singh; Jassa Singh Ahluwalia; Bhangis; Jassa Singh Ramgarhia; Charat Singh and Mahan Singh; Jai Singh Kanhaya; Ala Singh.
8. **Political Organisations of the Sikhs in the 18th Century:** Rakhi; Dal Khalsa; Gurmata, Misl. Emergence of new rulers and their military resources; Administrative arrangements; Land revenue; Administrative of Justice.

Suggested Reading:-

1. Grewal J.S., *From Guru Nanak to Maharaja Ranjit Singh*, G.N.D. University, Amritsar, 1982.
2. _____, *The New Cambridge History of India: The Sikhs of the Punjab*, CUP, New Delhi, 1990.
3. _____, *Guru Nanak in History*, Panjab University, Chandigarh, 1969.
4. Khushwant Singh, *A History of the Sikhs, Vol. I (1469-1839)*, OUP, Delhi, 1977.
5. McLeod, W.H., *Guru Nanak and the Sikh Religion*, OUP, Delhi, 1968.
6. Teja Singh and Ganda Singh, *A Short History of the Sikhs Vol. (1469-1765)*, Patiala 1983
7. Banerjee, I.B. *Evolution of the Khalsa, 2 Vols.*, A. Mukherjee & Co., Calcutta, 1979.
8. Grewal, J.S. and S. S. Bal, *Guru Gobind Singh*, Panjab University, Chandigarh, 1987.
9. _____, and Indu Banga, *The Khalsa Over 300 Years*, Manohar, New Delhi, 1999.
10. Harbans Singh (ed), *The Encyclopedia of Sikhism*, 4 Vols., Punjabi University, Patiala 1992.
11. McLeod, W.H. *Evolution of the Sikh Community*, OUP, Delhi, 1970.
12. _____, *Historical Dictionary of Sikhism*, OUP, New Delhi, 2002.

SEMESTER-IV**PAPER-IV & V, STREAM-3
GEOGRAPHY****GEOGRAPHY OF PUNJAB
(THEORY)****Time: 3 Hours****Max. Marks: 100****Theory Marks: 70****Practical Marks: 30****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

Objective:

1. To understand the regional setting of Punjab State in detail through physical and political maps.
2. To examine the pattern of select population characteristics.
3. To study the distribution of major crops, industries and transport links in the state.
4. To understand the intra regional variations in the select aspects.

SECTION-A

Location, Evolution of the State, Administrative Divisions. Relief, Drainage, Climate, Soils, Vegetation, Mineral and Power Resources.

SECTION-B

Population: Numbers, distribution, density, growth (birth rate, death rate and migration), religious composition, urbanization.

Agriculture: Main characteristics including green revolution, irrigation, main crops (wheat, rice, cotton, sugarcane) and their distribution, agricultural marketing, livestock and dairying, problems of agriculture.

SECTION-C

Industries: Main characteristics, distribution pattern of major industries (cotton textile, sugar, hosiery, engineering) industrial concentration, problems of industrialization.

Transport and Trade: Road, rail and their transport; Inter-State trade.

SECTION-D

Regional Geography of Majha, Doaba, Malwa and major characteristics of each region.

Books Recommended:-**Essential Readings:-**

1. Mankoo, Darshan S.: Geography of Punjab, Kalyani Publication, Ludhiana, **2009**.
2. Mavi, H.S. & Tiwana, D.S.: Geography of Punjab, National Book Trust, Delhi, 1993.
3. Singh, Malkit: Geography of Punjab, Reshmeet. Publications, Jalandhar, **2010**.

Further Readings:-

1. Census of India: Punjab: Census Atlas, Vol. XIII, No. IX, 1996.
2. Deshpande, C.D.: India: A Regional Interpretation, Northern Book Centre, New Delhi, 1992.
3. Gosal G.S. & Gopal Krishan: Regional Disparities in Levels of Socio-Economic Development in Punjab, Vishal Publications, Kurukshetra, 1984.
4. Gupta, S.P.: The Punjab: An Overview, Ess Pee Publications, Chandigarh, 2005.
5. Singh, Pritam: Punjab Economy: The Emerging Pattern, Enkay Publishers, New Delhi, 1995.
6. Singh, R.L., (Ed.): India: A Regional Geography, National Geographical Society of India, 1990, reprint.
7. Spate O.H.K. & Learmonth, A.T.A.: India and Pakistan: A General and Regional Geography. Methuen, London, Latest Edition.

SEMESTER-IV**PAPER-IV & V, STREAM-3
GEOGRAPHY****MAPWORK AND PRACTICAL GEOGRAPHY
(PRACTICAL)****Time: 3 Hours****Written Paper of 3 Hours: 15 Marks****Practical Record (File): 08 Marks****Viva: 07 Marks****Total Marks: 30****Objective:**

1. To apprise the students with symbolization of different types of geographical data and depiction of various spatial data.
2. To provide training in application of various graphical methods of depicting geographic data.
3. To train the students to interpret the topographical sheets at different scales course Content.

Course Contents:**SECTION-A****Construction and Significance of the following:**

- b) Columnar Diagrams: Simple, superimposed, composite.
- c) Graphs: Line graphs, climograph, hythergraph, erograph, wind rose.

SECTION-B

Topographical Maps: Significance of topographical maps in geographical studies. Study and Interpretation of topographical Maps of India (two sheets: one representing a hilly/mountainous tract and the other a plain tract).

Basic Introduction to Remote Sensing and GIS (Geographical Information System).

Note:-

1. A compulsory question containing 10 short answer type questions will be set covering the whole syllabus. The students will attempt 6 short answer type questions in about 25–30 words each. Each short answer type question will carry ½ mark (Total 3 marks).
2. The whole syllabus will be divided into 2 sections. Eight questions will be set out of the whole syllabus, four from each section. The students will be required to attempt two questions from each section. Each question will carry 3 marks. These will be in addition to the compulsory question at serial number 1. (Total 12 marks)
3. Evaluation of Practical Record will be done at the time of viva-voice examination.
4. A minimum of 16 sheet are to be prepared by each student.
5. In case, the candidate has applied for improvement, he/she should be required to make a fresh practical note book.
6. For practical classes, the number of students in one group shall not exceed fifteen.

Books Recommended:-**Essential Readings:-**

1. Khullar, D.R.: Essentials of Practical Geography, New Academic Publishing Co., Mai Hiran Gate, Jalandhar, 2016.
2. Robinson, A.H.: Elements of Cartography, John Wiley, New York, 1995.
3. Singh, Gopal: Mapwork & Practical Geography, Vikas Publishing House Pvt. Ltd., New Delhi, 1995.
4. Singh, R.L. & Singh Raghunandan: Mapwork and Practical Geography, Central Book Depot, Allahabad, 1993.

Further Readings:-

1. Birch, T.W.: Maps Topographical & Statistical; Clarendon Press, Oxford, 1949.
2. Garnett, A.: Geographical Interpretation of Topographical Maps, George Harrap & Co., London, 1953.
3. Monkhosue, F.J.: Maps and Diagrams, Methuen & Co., London, 1994 (reprint).

SEMESTER-IV**PAPER-IV & V, STREAM-3
POLITICAL SCIENCE****INDIAN POLITICAL SYSTEM****Time: 3 Hours****Max. Marks: 100****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

1. Nature of Party System in India: A Critical Evaluation.
2. National Political Parties (Indian National Congress – BJP, CPI, CPI (M), their organisation, Ideologies and electoral performance.
3. Regional Political Parties (SAD, and DMK,): Their Organisation, Ideologies and Electoral Performance.

SECTION-B

1. The Election Commission: Powers, functions, and Electoral Reforms.
2. Voting Behaviour.
3. Political Participation: Determinants and levels of Political Participation.

SECTION-C

1. Caste and Religion in Indian Politics.
2. Regionalism and Indian politics.
3. Emerging trends in Indian Politics.

SECTION-D

1. Basic principles and determinants of Indian Foreign Policy.
2. Policy of Non-alignment and its relevance in contemporary world.

Books Recommended:-

1. G. Austin, *The Indian Constitution: Corner Stone of a Nation*, Oxford, Oxford University Press, 1966.
2. G. Austin, *Working of a Democratic Constitution: The Indian Experience*, Oxford University Press, 2000, Delhi.
3. D.D. Basu, *An Introduction to the Constitution of India*, New Delhi, Prentice Hall, 2008.
4. C.P. Bambhari, *The Indian State Fifty Years*, New Delhi, Sipra, 1997.
5. P. Brass, *Politics of India Since Independence*, Hyderabad, Orient Longman, 1990.

B.A. B.ED. (FOUR YEARS INTEGRATED DEGREE PROGRAMME)

6. P. Brass, *Caste, Faction and Parties in Indian Politics*, Vol. II, Delhi, Chanakya Publications 1984-1985.
7. P. Brass, *Ethnic Groups and the State*, London, Croom, Helm, 1995.
8. P. Brass, *Language, Religion and Politics in North Indian*, London, Cambridge University Press, 1974.
9. B.L. Fadia, *State Politics in India*, Vol. II, New Delhi, Radiant Publishers, 1984.
10. F.R. Frankel, *India's Political Economy 1947-1977*, The Gradual Revolution, Oxford, Oxford University Press, 1978.
11. R. Kothari, *State against Democracy: In Search of Human Governance*, Delhi, Ajanta, 1988.
12. R. Kothari, *Politics in India*, New Delhi, Orient Longman, 1970.
13. R. Kothari, *Party System and Election Studies*, Bombay, Asia Publishing House, 1967.
14. I. Narain (ed.), *State Politics in India*, Meerut, Meenakshi Parkashan, 1967.
15. M.V. Pylee, *Constitutional Government in India*, Bombay, Asia Publishing House, 1977.
16. M.V. Pylee, *An Introduction to the Consitution of India*, New Delhi, Vikas, 1998.
17. S.P. Verma and C.P. Bhambari (ed.), *Election and Political Consciousness in India*, Meerut, Meenakshi Parkashan, 1967.
18. B.L. Fadia, *Indian Government and Politics*, Agra, Sahitya Bhavan Publications, 2008.
19. A.S. Narang, *Indian Government and Politics*, New Delhi, Gitanjali, 1999.
20. *Indian Journal of Political Sciences*
21. *Punjab Journal of Politics*
22. Seminar
23. Lloyd I. Rudolph and Susanne Hoeba Rudolph, *Explaining Indian Democracy: A Fifty-Year Perspective, 1956-2006*, Vol. I, II, III, New Delhi, OUP, 2008.
24. Francine Frankel, *India's Political Economy: 1947-2004*, New Delhi, OUP, 2006.
25. Zoya Hasan , *Parties and Party Politics in India*, Sage, 2012
26. M. Laxmi Kanth, *Indian Polity*, Tata Mcgraw, 2012
27. V. Krishna Ananth, *India Since Independence: Making Sense of Politics*, Pearson, 2011.
28. Bipin Chandra, *India since Independence*, Benjamin, 2007.

SEMESTER-IV**PAPER-IV & V, STREAM-3
ECONOMICS****INTERNATIONAL ECONOMICS AND PUBLIC FINANCE****Time: 3 Hours****Max. Marks: 100****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

International Trade: Internal and External Trade. Classical and Heckscher. Ohlin Theories, Gains from Trade, Terms of Trade, (gross, net and income terms of trade). Trade and economic development.

Commercial Policy: Free trade vs. protection, rationale of a protectionist policy in less developed area. GATT & WTO (Introductory).

SECTION-B

Balance of Payments: Meaning and components of balance of payments, Methods for correcting adverse balance of payments, devaluation and direct control.

Rate of Exchange: Meaning and determination, Fixed and flexible exchange rates.

SECTION-C

Public Finance: Nature, scope importance.

Public Expenditure: Meaning, principles, importance, effect of public expenditure on production and distribution.

SECTION-D

Taxes: Meaning, classification, features of a good taxation system, canons of taxation, incidence and impact of taxation.

Public Debt: Meaning, objectives, importance, its burden.

Recommended Texts

1. Sodersten, B.O.: International Economics, Macmillan, London, 1980.
2. Salvatore, B.: International Economics (1990), Macmillan Publishing Company, New York, 1975.
3. Maclean and: International Institutions in Trade Snowdown and Finance (1981).
4. Aggarwal, M.R.: International Institutions and Development in Developing Countries, Deep & Deep Publications, New Delhi, 2001.
5. Musgrave, R.A.: Theory of Public Finance.
6. Taylorm Philip: The Economics of Public Finance.
7. Buchanan, J.M.: The Public Finance.
8. Baltin, H.: Public Finance.
9. Herber, B.P.: Modern Public Finance.

SEMESTER-IV**PAPER-IV & V, STREAM-4****PHILOSOPHY****INDUCTIVE LOGIC AND ENVIRONMENTAL ETHICS****Lectures to be delivered: 6+4=10 per week****Time: 3 Hours****Pass Marks: 35%****Marks: 100****Theory Marks: 80****Practical Marks: 20****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

1. Induction: Definition and Characteristics of Induction; Types of Induction (Simple Enumeration, Scientific Induction and Analogy); Difference between Deduction and
2. Causation: Nature of Cause, Plurality of Causes (Mill), Uniformity of Nature.
3. Definition, Nature and Conditions of Valid Hypothesis; and its uses.

SECTION-B

4. Indian Logic: Definition, Nature and Scope.
5. Nyaya Syllogism: Difference between Nyaya Syllogism and Aristotelian Syllogism
6. Anumana in Nyaya Darshan: Meaning, Kinds, Panca-avayava, Vyapti.

SECTION-C

7. Environmental Ethics: Definition, Nature, Problems.
8. Ecology: Definition, Scope and its relation to Ethics.
9. Man-Nature Relationship (Indian Tradition).

SECTION-D

10. Population: Meaning, Population Dynamics, Migration, Problem, Causes of Over-Population and Solutions.
11. Pollution: Kinds, Causes and Solutions.
12. Nuclear Threat: Challenges and Solutions.

Recommended Readings:-

English Books:-

1. Attfield, R., *Environmental Philosophy: Principles and Prospects*, Aldershot, Avebury, 1994.
2. Barlingay, S.S., *A Modern Introduction to Indian Logic*, National Publishing House, Delhi, 1965.
3. Chahal, Surjit Kaur, *Environment and The Moral Life, Towards A New Paradigm*, Ashish Publishing House, New Delhi, 1994.
4. Cohen and Negal, *Introduction to Logic and Scientific Methods*, Allied Publishers, Bombay, 1976.
5. Dreyer, Oleg, *Ecological Problems of Developing Countries*, Ajanta Publications, Delhi, 1989.
6. Facione, Peter A., *Logic and Logical Thinking, A Modular Approach*, McGraw Hill, New York, 1978.

Punjabi Books:-

1. ਤ੍ਰਿਲੋਚਨ ਸਿੰਘ, *ਵਾਤਾਵਰਣ : ਦਰਪੇਸ਼ ਸਮੱਸਿਆਵਾਂ*, ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ, 1995.
2. ਨਿਰਾਕਾਰੀ, ਆਰ.ਡੀ., *ਉਚੇਰਾ ਤਰਕ ਸ਼ਾਸਤਰ*, ਪਬਲੀਕੇਸ਼ਨਜ਼ ਬਿਊਰੋ, ਪਟਿਆਲਾ।
3. ਵਜ਼ੀਰ ਸਿੰਘ ਅਤੇ ਹਰਨਾਮ ਸਿੰਘ, *ਤਰਕ ਗਿਆਨ ਦੀ ਜਾਣ-ਪਛਾਣ : (ਭਾਗ-2) (ਆਗਮਨ)*, ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ।

Hindi Books:-

1. ਤਿਵਾਰੀ, ਕੇਦਾਰਨਾਥ, *ਭਾਰਤੀਯ ਤਰਕਸ਼ਾਸਤਰ ਪਰਿਚਯ*.

SEMESTER-IV

PAPER-IV & V, STREAM-4
PSYCHOLOGY
EXPERIMENTAL PSYCHOLOGY-II
(THEORY)

Time: 3 Hours

Pass Marks: 35% of the subject
(Theory and Practical Separately)

Max. Marks: 100**Theory Marks: 75****Practical Marks: 25****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

Psychophysics: Concept of Psychophysics, Physical V/S Psychological continua, Point of Subjective Equality, Weber- Fechner law, Concept of Absolute and Differential Thresholds, Determination of AL and DL by Methods of Limits, Method of Constant Stimuli & Method of Average Error

SECTION-B

Memory: Concept and Nature, Encoding, Storage, Retrieval, Types of Memory

Mneumonics: An Introduction to the concept of Mneumonics, Constructive memory, Implicit memory & Eyewitness memory. Methods of Retention

Forgetting: Concept and Nature, Factors affecting Forgetting, Theories of Forgetting (Decay, Interference and Retrieval failure)

SECTION-C

Thinking and Problem Solving: Nature and Types of Thinking. Nature of Problem Solving, Stages of Problem Solving, Factors, Role of Set in Problem Solving

Concept Formation: Nature, Types and Processes

SECTION-D

Correlation: Concept, Types of Correlation, Nature and Characteristics, Rank Order and Product Moment Methods (Numericals for Individual data), Chi-square Test

References:-

1. D'Amato, M.R.: Experimental Psychology: Methodology Psychophysics and Learning, McGraw Hill Company, New Delhi, 1970.
2. Postman, L and Egan, J.P.: Experimental, Psychology, Harper and Row, New York.
3. Woodworth, R.S. and Schlosberg, H.: Experimental Psychology, New York; Holt, Rinehart and Winston Inc. 1954.
4. Galotti, K.M. (2007): Cognitive Psychology in and Out of the Laboratory, Thomson Wads Worth.

SEMESTER-IV**PAPER-IV & V, STREAM-4
PSYCHOLOGY****(PRACTICAL)****Marks: 25****Instructions for the Practical Examination:**

Students are supposed to perform five practicals out of 6 mentioned in the syllabus. Practical examination will be of 3 hours duration. External Examiner will conduct the practical examination. The students will perform one practical in the exam carrying 25 marks. Evaluation of the practical would be done on the basis of write-up of file book (5 Marks), performance and viva-voce (20 Marks) relating to the practicals. In case students have not completed 5 practicals, the examiner will deduct marks at the rate of 5 for each left practical out of total evaluation of the student. No reappear will be allowed in the practical examination. Fail in the practical will be considered fail overall in the subject.

Five Practical have to be performed out of the following:

1. Measurement of Differential Threshold
2. Recall Vs Recognition Method
3. Retroactive inhibition
4. Problem-Solving
5. Concept formation.
6. Immediate Memory Span

SEMESTER-IV**PAPER-IV & V, STREAM-4
SOCIOLOGY****SOCIAL CHANGE IN INDIA****Time: 3 Hours****Marks: 100****Instructions for the Paper Setters:-**

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION-A

- a) **Social Change:** Meaning and Forms: Evolution, Revolution, Progress and Development.

SECTION-B

- a) **Factors of Social Change:** Demographic, Education, Industrialization, Legislation, Urbanizaion.

SECTION-C

- a) **Processes of Change:** Sanskritization, Westernization, Modernization, Secularization, Globalization.

SECTION-D

- a) **Challenges of Social Change:** Dowry, Domestic Violence, Divorce, Problems of elderly, Female foeticide.

Books Recommended:-

1. Ahuja, Ram: *Social Problems*, Rawat Publishers, New Delhi, 1992.
2. Abraham, M. Francis: *Contemporary Sociology*, Oxford University, New Delhi, 2006.
3. Gill, S.S.: *The Pathology of Corruption*, Harper Collin Publishers, New Delhi, 1998.
4. Kapila, S: *A Textbook of Sociology*, Part-I & II, New Academic House, Jalandhar, 1990-91.
5. Kuppuswamy, B.: *Social Change in India*, Vikas, Delhi, 1975.
6. Macionis, John.J and Ken Plumer. 2014, *Sociology: A Global Introduction*. London: Pearson.
7. Maclver, R.M. & Page, Charles H.: *Society, An Introductory Analysis*, Macmillan, London, 1974.
8. Srinivas, M.N.: *Social Change in Modern India*, Orient Longman, Bombay, 1972.

SEMESTER-IV
EPC III
DRAMA AND ART IN EDUCATION

Time: 1.30 Hrs.

Total Marks: 50
Internal Marks: 25
External Marks: 25

Course Objectives: After Completion of Course the Students will be able to:

- Develop imagination and sense of appreciation of art and interest in art.
- Develop aesthetic sense.
- Prepare effective teaching aids.
- Have basic knowledge about color scheme.
- To use drama processes to examine their present and to generate new knowledge, understanding and perceptions of the world and themselves in it.
- Train, enhance some theatre skills that will later help them be creative and enlightened teachers. A process that draws our physical, emotional, intellectual and other faculties together in a moment (e.g. life itself) makes for worthwhile, far reaching, holistic learning. Drama is one such experience and should therefore have a central place in school education.

SECTION-A

1. Sketching of different objects related with their respective teaching subjects
2. Preparation of colour chart in file i.e. Primary, Secondary, warm, cool, neutral
3. Writing and Sketching practice on the black board with respect to pedagogy subject aesthetically
4. Preparation of chart of alphabets in English, Punjabi and Hindi
5. Preparation of one chart according to pedagogy subject.

SECTION-B

1. Role of drama in pedagogy subjects
2. Use of drama techniques for personality development
3. Preparation of video presentation of pedagogy lessons using drama and art techniques.

Evaluation scheme

a) Internal

Attendance

05 Marks

Assignments on the following

Report on drama techniques for personality development

Preparation of video presentation of pedagogy lessons.

20 Marks

b) External

25 marks

1. Evaluation on the basis of work done in Section-I and II
2. Viva Voce will be done by the external.

SEMESTER-IV**Note:-**

- For internal evaluation a committee of three teachers (concerned teacher, HOD and a senior faculty nominated by the principal) will be constituted at the institution level and coordinated by the principal of the concerned college.
- The committee will assess the performance of the students and evaluate the records. The award list will be forwarded to the university by the principal of the institution.
- The record in the form of files, CD, pen drive be retained for at least three years in the institution.
- In case of any aberration or any complaint the university / external agency is authorized to review the internal awards.

REFERENCES:-

1. Thames and Hudson: *How to Paint and Draw*. 30 Bloomsbury Street, London. Work Experience and Black Board Writing. Neeraj Publications, Rohtak.
2. Awasthi, S.S. (1964). *A Critique of Hindustan Music and Music Education*. Jalandhar.
3. Bhatkhande, V. M. (1987). *KRAMIK* PustakMahikaLaxmi Narayan Garg, Hathras.
4. Bhatnagar, S. (1988). *Teaching of Music*. Monika Prakashan, Shimla.
5. Kalekar, S. (1968). *SangeetShikshanParichaya*.
6. Khanna, J. (1992). *Teaching of Music*. MadanPannaLal. Teaching of Music. Jalandhar.
7. Shah, S. (1986). *SangeetShikshanPranali*. Pb. KitabGharVinodPustakMandir, Agra Vasant (1986): SangeetVisharad. SangeetKarylaya, Hathras

SEMESTER-IV**PAPER-VI (ESL-221): ENVIRONMENTAL STUDIES****Time: 3 Hrs.****Max. Marks: 100****Teaching Methodologies**

The Core Module Syllabus for Environmental Studies includes class room teaching and field work. The syllabus is divided into 8 Units [Unit-1 to Unit-VII] covering 45 lectures + 5 hours for field work [Unit-VIII]. The first 7 Units will cover 45 lectures which are class room based to enhance knowledge skills and attitude to environment. Unit-VIII comprises of 5 hours field work to be submitted by each candidate to the Teacher in-charge for evaluation latest by 15 December, 2019.

Exam Pattern: **End Semester Examination- 75 marks**
 Project Report/Field Study- 25 marks [based on submitted report]
 Total Marks- 100

The structure of the question paper being:

Part-A, Short answer pattern with inbuilt choice – 25 marks

Attempt any five questions out of seven distributed equally from Unit-1 to Unit-VII. Each question carries 5 marks. Answer to each question should not exceed 2 pages.

Part-B, Essay type with inbuilt choice – 50 marks

Attempt any five questions out of eight distributed equally from Unit-1 to Unit-VII. Each question carries 10 marks. Answer to each question should not exceed 5 pages.

Project Report / Internal Assessment:

Part-C, Field work – 25 marks [Field work equal to 5 lecture hours]

The candidate will submit a hand written field work report showing photographs, sketches, observations, perspective of any topic related to Environment or Ecosystem. The exhaustive list for project report/area of study are given just for reference:

1. Visit to a local area to document environmental assets: River / Forest/ Grassland / Hill / Mountain / Water body / Pond / Lake / Solid Waste Disposal / Water Treatment Plant / Wastewater Treatment Facility etc.
2. Visit to a local polluted site – Urban / Rural / Industrial / Agricultural
3. Study of common plants, insects, birds
4. Study of tree in your areas with their botanical names and soil types
5. Study of birds and their nesting habits
6. Study of local pond in terms of wastewater inflow and water quality
7. Study of industrial units in your area. Name of industry, type of industry, Size (Large, Medium or small scale)
8. Study of common disease in the village and basic data from community health centre

9. Adopt any five young plants and photograph its growth
10. Analyze the Total dissolved solids of ground water samples in your area.
11. Study of Particulate Matter (PM_{2.5} or PM₁₀) data from Sameer website. Download from Play store.
12. Perspective on any field on Environmental Studies with secondary data taken from Central Pollution Control Board, State Pollution Control Board, State Science & Technology Council etc.

Unit-I

The multidisciplinary nature of environmental studies

Definition, scope and importance, Need for public awareness

(2 lectures)

Unit-II

Natural Resources: Renewable and non-renewable resources:

Natural resources and associated problems.

- (a) Forest resources: Use and over-exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects on forests and tribal people.
- (b) Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems.
- (c) Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources, case studies.
- (d) Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity, case studies.
- (e) Energy resources: Growing energy needs, renewable and non-renewable energy sources, use of alternate energy sources, case studies.
- (f) Land resources: Land as a resource, land degradation, man induced landslides, soil erosion and desertification.
 - Role of an individual in conservation of natural resources.
 - Equitable use of resources for sustainable lifestyles.

(8 Lectures)

Unit-III

Ecosystems

- Concept of an ecosystem
- Structure and function of an ecosystem
- Producers, consumers and decomposers
- Energy flow in the ecosystem
- Ecological succession
- Food chains, food webs and ecological pyramids
- Introduction, types, characteristic features, structure and function of the following ecosystem: Forest ecosystem, Grassland ecosystem, Desert ecosystem, Aquatic ecosystems (ponds, streams, lakes, rivers, ocean estuaries)

(6 Lectures)

Unit-IV**Biodiversity and its conservation**

- Introduction – Definition: genetic, species and ecosystem diversity
- Biogeographical classification of India
- Value of biodiversity: consumptive use, productive use, social, ethical aesthetic and option values
- Biodiversity at global, national and local levels
- India as a mega-diversity nation
- Hot-spots of biodiversity
- Threats to biodiversity: habitat loss, poaching of wildlife, man wildlife conflicts
- Endangered and endemic species of India
- Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity

(8 Lectures)**Unit-V****Environmental Pollution :****Definition :**

- Causes, effects and control measures of Air pollution, Water pollution, Soil pollution, Marine pollution, Noise pollution, Thermal pollution, Nuclear pollution
- Solid waste management: Causes, effects and control measures of urban and industrial wastes.
- Role of an individual in prevention of pollution
- Pollution case studies
- Disaster management: floods, earthquake, cyclone and landslides

(8 Lectures)**Unit-VI****Social Issues and the Environment**

- From unsustainable to sustainable development
- Urban problems and related to energy
- Water conservation, rain water harvesting, watershed management
- Resettlement and rehabilitation of people; its problems and concerns. Case studies.
- Environmental ethics: Issues and possible solutions
- Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Case studies.
- Wasteland reclamation
- Consumerism and waste products
- Environmental Protection Act, 1986
- Air (Prevention and Control of Pollution) Act, 1981
- Water (Prevention and control of Pollution) Act, 1974
- Wildlife Protection Act
- Forest Conservation Act
- Issues involved in enforcement of environmental legislation
- Public awareness

(7 Lectures)

Unit-VII**Human Population and the Environment**

- Population growth, variation among nations
- Population explosion – Family Welfare Programmes
- Environment and human health
- Human Rights
- Value Education
- HIV / AIDS
- Women and Child Welfare
- Role of Information Technology in Environment and Human Health
- Case Studies

(6 Lectures)**Unit-VIII****Field Work**

- Visit to a local area to document environmental assets River / forest / grassland / hill / mountain
- Visit to a local polluted site – Urban / Rural / Industrial / Agricultural
- Study of common plants, insects, birds
- Study of simple ecosystems-pond, river, hill slopes, etc

(Field work equal to 5 lecture hours)**References:**

1. Bharucha, E. 2005. Textbook of Environmental Studies, Universities Press, Hyderabad.
2. Down to Earth, Centre for Science and Environment, New Delhi.
3. Heywood, V.H. & Waston, R.T. 1995. Global Biodiversity Assessment, Cambridge House, Delhi.
4. Joseph, K. & Nagendran, R. 2004. Essentials of Environmental Studies, Pearson Education (Singapore) Pte. Ltd., Delhi.
5. Kaushik, A. & Kaushik, C.P. 2004. Perspective in Environmental Studies, New Age International (P) Ltd, New Delhi.
6. Rajagopalan, R. 2011. Environmental Studies from Crisis to Cure. Oxford University Press, New Delhi.
7. Sharma, J. P., Sharma. N.K. & Yadav, N.S. 2005. Comprehensive Environmental Studies, Laxmi Publications, New Delhi.
8. Sharma, P. D. 2009. Ecology and Environment, Rastogi Publications, Meerut.
9. State of India's Environment 2018 by Centre for Sciences and Environment, New Delhi
10. Subramanian, V. 2002. A Text Book in Environmental Sciences, Narosa Publishing House, New Delhi.

**PAPER–VII: DRUG ABUSE: PROBLEM, MANAGEMENT AND PREVENTION
(COMPULSORY PAPER)**

(Only for those students who have not studied this paper in Semester–II)

DRUG ABUSE: MANAGEMENT AND PREVENTION

Time: 3 Hours

Max. Marks: 50

Instructions for the Paper Setters:-

Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION–A

Prevention of Drug abuse:

Role of family: Parent child relationship, Family support, Supervision, Shaping values, Active Scrutiny.

SECTION–B

School: Counselling, Teacher as role-model. Parent-teacher-Health Professional Coordination, Random testing on students.

SECTION–C

Controlling Drug Abuse:

Media: Restraint on advertisements of drugs, advertisements on bad effects of drugs, Publicity and media, Campaigns against drug abuse, Educational and awareness program

SECTION–D

Legislation: NDPs act, Statutory warnings, Policing of Borders, Checking Supply/Smuggling of Drugs, Strict enforcement of laws, Time bound trials.

References:-

1. Ahuja, Ram (2003), *Social Problems in India*, Rawat Publication, Jaipur.
2. Extent, Pattern and Trend of Drug Use in India, Ministry of Social Justice and Empowerment, Government of India, 2004.
3. Inciardi, J.A. 1981. *The Drug Crime Connection*. Beverly Hills: Sage Publications.
4. Kapoor. T. (1985) *Drug epidemic among Indian Youth*, New Delhi: Mittal Pub.
5. Kessel, Neil and Henry Walton. 1982, *Alcoholism*. Harmond Worth: Penguin Books.
6. Modi, Ishwar and Modi, Shalini (1997) *Drugs: Addiction and Prevention*, Jaipur: Rawat Publication.
7. National Household Survey of Alcohol and Drug abuse. (2003) New Delhi, Clinical Epidemiological Unit, All India Institute of Medical Sciences, 2004.
8. Ross Coomber and Others. 2013, *Key Concept in Drugs and Society*. New Delhi: Sage Publications.

9. Sain, Bhim 1991, *Drug Addiction Alcoholism, Smoking obscenity* New Delhi: Mittal Publications.
10. Sandhu, Ranvinder Singh, 2009, *Drug Addiction in Punjab: A Sociological Study*. Amritsar: Guru Nanak Dev University.
11. Singh, Chandra Paul 2000. *Alcohol and Dependence among Industrial Workers*: Delhi: Shipra.
12. Sussman, S and Ames, S.L. (2008). *Drug Abuse: Concepts, Prevention and Cessation*, Cambridge University Press.
13. Verma, P.S. 2017, "*Punjab's Drug Problem: Contours and Characteristics*", Economic and Political Weekly, Vol. LII, No. 3, P.P. 40-43.
14. World Drug Report 2016, United Nations office of Drug and Crime.
15. World Drug Report 2017, United Nations office of Drug and Crime.