SYLLABUS

FOR

B.A./B.Sc.
(12+3 SYSTEM OF EDUCATION)
(SEMESTER–II)

Examinations: 2019-20

GURU NANAK DEV UNIVERSITY
AMRITSAR

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(ii) Subject to change in the syllabi at any time.  
     Please visit the University website time to time.
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B.A./B.Sc. (Semester System) (12+3 System of Education) (Semester–II) (Session 2019-20) (Faculty of Arts & Social Sciences)

SEMESTER–II

POLITICAL SCIENCE

MODERN POLITICAL THEORY

Time: 3 Hours \hspace{1cm} 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.

SECTION–B

1. Rights and Duties: Meaning, Types and Relationship between the Two.

SECTION–C

1. Liberty: Meaning, Types and its Safeguards.
2. Equality: Meaning, Types and Relationship between Liberty and Equality.

SECTION–D

1. Democracy: Meaning, Characteristics and Types.
2. Theories of Democracy: Liberal, Marxian and Elitist Theory.
B.A./B.Sc. (Semester System) (12+3 System of Education) (Semester-II) (Session 2019-20) (Faculty of Arts & Social Sciences)

Recommended Books:-

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 Ghauris**: 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.
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**

4. Rizivi, S.A.A., *The Wonder That Was India-II* (1200-1700), Picador India,
SEMESTER–II
DEFENCE AND STRATEGIC STUDIES

INTERNATIONAL RELATIONS: DEFENCE ASPECTS
(THEORY)

Time: 3 Hours
Max. 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.

Note: Practical are only meant for the regular students. For the private students the paper shall be of 100 marks. For private students, each question will be of 20 marks.

SECTION–A

1. National Interest:
   i) Concept and definition.
   ii) Vital and non–vital elements
   iii) Instruments of National Interest.

2. The United Nations:
   i) Structure (Organs and specialised agencies)
   ii) Functions

SECTION–B

1. Balance of Power:
   i) Meaning and Concept
   ii) Historical Development of the system.
   iii) Functioning of the system.

2. Collective Security:
   i) Meaning & Concept.
   ii) Role of United Nation in maintaining collective security.

SECTION–C

1. Diplomacy:
   i) Definition.
   ii) Types and uses

2. Frontiers and Boundaries:
   i) Difference between Frontiers and Boundaries.
   ii) Types of Boundaries.
   iii) Importance of Boundaries.
1. Humanisation of War:
   i) Definition and Concept.
   ii) Geneva Conventions.

2. Means to Settle International Disputes:
   i) Pacific Means.
   ii) Coercive Means

3. Disarmament and Arms Control:
   i) Difference between Disarmament and Arms Control.
   ii) Types of Disarmament.
   iii) Efforts, Made outside the UN towards disarmament.

Books Recommended:-

3. Encyclopedia Americana (Latest edition)
4. Encyclopedia Britannica (Latest edition)
B.A./B.Sc. (Semester System) (12+3 System of Education) (Semester–II) (Session 2019-20)  
(Faculty of Arts & Social Sciences)

SEMEREST–II

DEFENCE AND STRATEGIC STUDIES  
(PRACTICAL)

Time: 3 Hrs. 
Total Marks: 20  
Written: 10  
Discussion: 05  
Record & Viva-Voce: 05

Instructions for the Examiners:-

1. Examiners are required to set a question paper containing 10 marks of 1 hour duration in which he is supposed to set at least 3 questions of 5 marks each and students are required to attempt any two.
2. In the written practical Examination, choice in questions may be given to the students. The question paper is to be set at least half an hour before the examination.
3. Each student should be asked to deliver a talk/make short presentation for 5–10 minutes on any of the given topics.
4. Examiners should devote reasonable time for Viva-Voce Test and assess the practical record of a student.
5. For practical paper one group of Students will not comprise of more than 20 students at a time.

A. WRITTEN TEST

Time: 1 Hour
Marks: 10

1. Directions

2. North
   a. Types of North and finding out True North
   b. The Pole Star Method
   c. The equal altitude method
   d. Watch method & Compass method.

3. Scale
   a. Definition,
   b. Methods of representing Scale.
   c. Inter–conversion of scale into Representative Fraction, construction of simple scale line and the comparative scale lines.

B. TOPICS FOR DISCUSSION/PRESENTATION:  
Marks: 05
a. The role of UN in peace keeping.
b. Collective Security System
   c. Humanization of War

C. RECORD AND VIVA-VOCE  
Marks: 05
SEMESTER–II

JOURNALISM AND MASS COMMUNICATION (VOCATIONAL)
(THEORY)

Time: 3 Hours
Max. 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
- Development of Radio, TV, Cinema and Cable in India over the years

SECTION–B
- Organs of I & B Ministry: FTII, NFAI, DAVP, Field Publicity, Song and Drama Division, Directorate of film festivals, NFDC, RNI, Film Division
- Basics of different formats for Radio and TV

SECTION–C
- Fundamentals of Hardware of electronic media (Studios, Microphones, Recording and editing equipments)
- Audio-Visual media and its characteristics

SECTION–D
- Print Media, its characteristics (News concept, elements, types, Basics of News reporting, Sources of News, Hard and soft news, specialized reporting, Problems in reporting)

Books Recommended:-

1. Professional Journalism M.V. Kamath Vikas
2. The Journalist’s Handbook M.V. Kamath Vikas
3. Here is the News Rangaswamy Sterling Parthasarthy Sterling
   Basic News Writing
SEMESTER–II

JOURNALISM AND MASS COMMUNICATION (VOCAATIONAL)
(PRACTICAL)

Reporting the College Events.

Visit to Newspapers Offices

Rewriting the news (at least 10)

Marks: 20
SEMESTER–II
MASS COMMUNICATION & VIDEO PRODUCTION (VOCATIONAL)
AUDIO VISUAL MEDIA
(THEORY)

Time: 3 Hours
Max. 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
- History and Development of Radio, TV, Cinema and Cable in India over the years

SECTION–B
- Organs of I & B Ministry: FTII, NFAI, DAVP, Field Publicity, Song and Drama Division, Directorate of film festivals, NFDC, RNI, Film Division
- Basics of different formats for Radio and TV: Talk, Interview, News, Discussion, Voxpox, Live shows, Feature, Documentary, Drama, Serial, Phone in programs, Commercials

SECTION–C
- Print Media: characteristics, concept of news
- Elements of news
- Types of news; steps in writing news
- Sources of news
- Basics of news reporting

SECTION–D
- Audio-visual media and its characteristics
- Online Journalism

Books Recommended:-

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<tr>
<td>Radio &amp; TV Journalism</td>
<td>Jan R. Hakemulder</td>
<td>Anmol Publications, New Delhi,</td>
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<td>Radio &amp; TV Journalism</td>
<td>K.M. Srivastava</td>
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<td>Annual Report</td>
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SEMESTER–II

MASS COMMUNICATION & VIDEO PRODUCTION (VOCATIONAL)
AUDIO VISUAL MEDIA
(PRACTICAL)

Marks: 20

Visit to AIR, DD and other media organizations, News Writing, Introduction to basic mechanics of production techniques, script writing for Radio & TV programmes. Computer Practicals

NOTE:- Practical to be conducted by the external examiner.
B.A./B.Sc. (Semester System) (12+3 System of Education) (Semester–II) (Session 2019-20)  
(Faculty of Arts & Social Sciences)

**SEMESTER–II**

**PUBLIC ADMINISTRATION**

**INDIAN ADMINISTRATION**

**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**

**Main Features of Indian Administration:** Nature of Indian Federalism, Union–State Relations. Legislative, Administrative and Financial.

**SECTION–B**

**Central Administration:** President, Prime Minister, PMO, Council of Ministers. Central Secretariat; Organisation and Functions, Cabinet Secretariat. 
**Parliament:** Lok Sabha, Rajya Sabha, Speaker.  
**Judicial System:** Supreme Court and High Court.

**SECTION–C**

**State Administration:** Governor, Chief Minister, Council of Ministers, Chief Secretary, State Legislature. State Planning Board.  
**Divisional and District Administration:** Features, Functions and Role of Divisional Commissioner and Deputy Commissioner.

**SECTION–D**

**Issues in Indian Administration:** Relationship between permanent and political executive, Generalist versus specialist, Good Governance initiatives.

**Suggested Readings:-**
B.A./B.Sc. (Semester System) (12+3 System of Education) (Semester–II) (Session 2019-20)  
(Faculty of Arts & Social Sciences)

SEMESTER–II
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.

SECTION–D
a) Social Disorganization: Meaning and Forms: Corruption, Crime and Terrorism.

Recommended Readings:-
SEMMESTER-II

WOMEN EMPOWERMENT

WOMEN INEQUALITY: SOCIAL, POLITICAL AND ECONOMIC ASPECTS

Time: 3 Hrs.                      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

Women Inequality: Social Aspects
1. Women Inequality and Violence: Discriminations, Sexual Harassment, Child Marriage, Dowry, Abortion, Trafficking, Rape and Acid throwing.
2. Social Issues Related to Women and Practice of Inequality: Health, Female Foeticide, Female Infanticide.

SECTION–B

Women Inequality: Economic Aspects
1. Women and Economy: Poverty and inclusive growth.

SECTION–C

Women Inequality: Political Aspects
1. Political Movement in Pre Independence and Post Independence period and Women Participation
2. Women Rights and Judiciary in India.

SECTION–D

Women Inequality and Women Movements in India
1. Women's Movements and Struggle for Women's Rights: Role of state, women groups and economy.
2. Women Activism, Protests and Civil Society.
B.A./B.Sc. (Semester System) (12+3 System of Education) (Semester–II) (Session 2019-20)  
(Faculty of Arts & Social Sciences)

SEMESTER–II

Drug Abuse: Problem, Management and Prevention

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


References:-

1. Ahuja, Ram (2003), Social Problems in India, Rawat Publication, Jaipur.
SEMIESTER–II

PSYCHOLOGY

BASIC PSYCHOLOGICAL PROCESSES–II
(THEORY)

Time: 3 hours
Max. Marks: 100
Theory Marks: 75
Pass Marks: 35% of the subject
Practical Marks: 25
(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 Lindzy), 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:


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 Practicals 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
B.A./B.Sc. (Semester System) (12+3 System of Education) (Semester–II) (Session 2019-20)  
(Faculty of Arts & Social Sciences)

SEMESTER–II

GEOGRAPHY

PHYSICAL 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).
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:**

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:


Further Readings:

 SEMESTER–II

Punjab History & Culture (C. 320 to 1000 B. C)  
(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. Alexander’s Invasion and its Impact  
2. Punjab under Chandragupta Maurya and Ashoka.

SECTION–B
3. The Kushans and their Contribution to the Punjab.  
4. The Panjab under the Gupta Empire.

SECTION–C
5. The Punjab under the Vardhana Emperors  
6. Socio-cultural History of Punjab from 7th to 1000 A.D.

SECTION–D
7. Development of languages and Education with Special reference to Taxila  
8. Development of Art & Architecture

Suggested Readings
1. L. M Joshi (ed), History and Culture of the Punjab, Art-I, Punjabi University, Patiala, 1989 (3rd edition)  
SEMESTER–II
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
Trade cycles-meaning, characteristics and phases. Samuelson and Hicks Models of trade cycles.

SECTION-C
Banking: Definitions of banks. Credit creation and credit control.

SECTION-D

Recommended Texts:
SEMESTER–II

QUANTITATIVE TECHNIQUES–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
Statistics: Definition, Scope in Economics, Significance, Limitations. Tabulation, Classification and Graphical representation of data (Pie Chart, Bar Diagram, Histogram, Frequency Polygon, Ogive Curve, etc.).

SECTION–B
Concepts and Measures of Central Tendency: Mean, Median and Mode; Concepts and Measures of Relative Dispersion.

SECTION–C
Correlation Analysis: Introduction, Importance, Karl-Pearson’s Coefficient of Correlation, Spearman’s Rank Correlation Coefficient, Simple Regression Analysis; Difference between Correlation and Regression, Lines of Regression, Properties of Correlation and Regression Coefficients (stress on numerical examples).

SECTION–D
Index Numbers: Concept of Index Number, Purpose Construction & Problems, Laspeyre, Paasche and Fisher’s Formulae, Tests of Consistency.
Analysis of Time Series: Definition, Components of Time Series, Measurement of Trend by different methods; stress on examples.

Books Recommended:-
SEMESTER–II
INDUSTRIAL ECONOMICS

INDUSTRIAL ECONOMICS–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
Industrial Relations: Concept, approach and organisation.
Theory of Industrial Relations: Dunlop's industrial relation system; Classical Marxist Theory; human relation theory; Pluralism and radical approach.

SECTION–B
Growth, pattern and structure of labour unions in India–achievements and failures.
Nature and Causes of industrial disputes–settlement and prevention mechanism; Role of tripartism.

SECTION–C
Collective Bargaining: Theories, types and role; current trends in collective bargaining.

SECTION–D
Labour legislation in India with reference to Trade Union Act, 1926; Industrial Disputes Act, 1947, and their contemporary relevance since labour market reforms.

Recommended Texts:-
SEMESTER–II

AGRICULTURAL ECONOMICS & MARKETING

AGRICULTURAL MARKETING - 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

Marketing: Definition, scope, product, production, selling and marketing concepts, marketing efficiency, farmers and marketing.

SECTION–B

Consumer–market and buying behaviour, trends in population and income distribution variations in food consumption, market segmentation, market integration, market consideration.

SECTION–C

Agricultural Production in India: Farm size, land utilization and cropping pattern, characteristics of producer and production.

Variations in production–seasonal, annual and geographic Marketed and marketable surplus.

SECTION–D

Agricultural Marketing in India, structure, type and defects, marketing function, processing and standardisation, grading, transportation, distribution and storage, marketing agencies.

Suggested Readings:-

4. Rudder Dutt and Sundram, Indian Economy.
5. Indian Council of Agricultural Research, Handbook of Agriculture.
6. S.S. Acharya Marketing of Farm Products.
SEMESTER–II

RURAL DEVELOPMENT–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
Rural Development; Concept and Objectives; Rural Development since Independence; community Development Programme (C.D.P.), National Extension Service (N.E.S.), High Yielding Varieties Programme (H.Y.V.P.), Intensive Agricultural District Programme (I.A.D.P.).

SECTION–B

SECTION–C
Organisation Set up: Ministry of Rural and Agriculture Development at the Central Level Planning and Planning Machinery, Deptt. of Agriculture and Rural Development at the State level.

SECTION–D
Panchayti Raj : Rural Development, District Administration and Rural Development. Planning at local level, Role of Block Development Officers in rural development.

Books Suggested:-
SEMINARY–II
OFFICE MANAGEMENT AND SECRETARIAL PRACTICES (VOCATIONAL) 
COMPUTER APPLICATIONS – II

Time: 3 hours

Marks: 100
Theory: 60
Practical: 40

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

Advanced Word Processing: Tables: Creating a new table, entering text in a table, adding and inserting rows/columns to a table, deleting rows/column from a table, resizing rows and columns, merging cells, adding borders and shading, deleting a table. Mail Merge: creating a document with mail-merge, creating database for addresses, generating multiple letters for mail merge.

SECTION–B

Spreadsheet: What is a Spreadsheet? Need and uses of Spreadsheets, advantages and limitations of using Spreadsheets, software used for working with Spreadsheets. Why MS- Excel and which version? Keywords: cell, row, column, label, value, cell address, workbook, worksheet, cell range. Starting Excel: Excel interface, creating a workbook, saving a workbook, editing a workbook, inserting/deleting worksheets, entering data in a cell, selecting cells, moving data from selected cells, rearranging worksheets, imports to spreadsheets, resizing rows/columns. Working with Excel: Creating simple charts: Pie, Line, Bar-chart, using chart wizard.

SECTION–C

Power Point Presentation: Meaning of PowerPoint presentation, extension of PowerPoint document, Need and use of presentation in office administration, Software available in the market for presentations, Widely used software: PowerPoint by Microsoft and its advantages, PowerPoint interface: title bar, menu bar, toolbars, status bar, task pane., Components of a presentation: slides, outlines, speaker notes, handouts, Creating a simple presentation in PowerPoint, Add-ons to a presentation: images, videos, audio files

SECTION–D

Working with Slides in PowerPoint: Power Point formatting basics: Slide layouts, changing the background of the slides, applying design templates, changing the color schemes, font and formatting. Viewing a presentation: Normal view, Slide Sorter view, Notes page view, Slide Show view, Adding transition between slides, and adding animation in a slide, automatic slideshow. Working with Slides: Changing layout, duplicating a slide, hiding a slide, moving a slide, deleting a slide, inserting pictures into a slide, inserting word art into a slide, inserting auto shapes.

Note: The relevant short cut keys for MS Excel and MS Power Point to be discussed.

Suggested Readings:-
2) Microsoft Word 2010 Step by Step (Microsoft) by Curtis Frye.
3) Excel 2010 For Dummies, Greg Harvey.
4) Teach Yourself VISUALLY Excel 2010, Paul McFedries.
5) PowerPoint 2010 All-in-One For Dummies, Peter Weverka.
6) Microsoft Office PowerPoint 2010 Step by Step (Microsoft) by Joyce Cox and Joan Preppernau.
SEMESTER–II
OFFICE MANAGEMENT AND SECRETARIAL PRACTICES (VOCATIONAL)
(PRACTICAL)

Marks: 40

Word Processing:
- How to Draw Tables
- How to Insert Text in Tables
- Merging Mails.

Spreadsheet:
- Working in Excel
- Creating a Workbook
- Inserting Values in Cells
- Performing Basic Functions

Power Point Presentation:
- Creating a Power Point Presentation
- Add-ons like Images, Videos & Audio Files
- Adding transition, animations etc.
- Designing Automatic Slideshow
SEMESTER–II

TRAVEL & TOURISM

INDIAN HERITAGE AND TOURIST RESOURCES

Time: 3 Hrs. 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

Geography and Tourism
Physical features of Indian subcontinent.
Climatic conditions of India.

Natural Resources and Tourism
Wildlife Sanctuaries: Jim Corbett Tiger Reserve, Bharatpur Bird Sanctuary
National Parks and Natural Reserves of India: Valley of Flowers, Kanha, Kaziranga, Ranthambhore.

SECTION–B

Architectural Heritage
Overviews of Ancient, medieval and modern forms of architecture.

Important Monuments
Stupa at Sanchi, Brihadeshwara Temple (Tanjore), Red Fort (Delhi), Taj Mahal (Agra), Lutyen's Delhi, Lotus Temple (Delhi).

SECTION–C

Performing Arts
Schools of painting.
Classical dances and dance styles
Folk dances.
Schools of music.
Musical instruments.

Handicrafts and Handlooms
Types of Handicrafts and Handlooms in India.
Major Fairs for Promotion of Handicrafts and Handlooms—Dilli Haar, Central Cottage Industries Emporium, Fab India.
SECTION-D

Fairs and Festivals
   Traditional: Kumbha, Pushkar, Chhatha, Pongal, Holi, Onam, Durga Puja, Ramalila, Diwali, Dashahara (Kullu), Rathyatra, Id–ul–Fitr. Muharram, Christmas.
   Modern: Carnival (Goa), Ganga Mahotsava, Taj Mahotsava, Khajuraho Mahotsava and Desert Festival.

Hill Stations and Coastal Tourism
   Major Hill Stations: Shimla, Darjelling, Ooty, Gangtok, Gulmarg, Ladak, Kodikannal
   Coasts and Beaches: Beaches of Andaman & Nicobar Islands, Marina Beach (Chennai), Konark Beach (Orissa), Juhu Beach (Mumbai).

Suggested Readings:

5. Brown, Perey, *Indian Architecture (Buddhist and Hindu) and (Islamic Period)*, Bombay, 1942 and Calcutta, 1942 respectively.
B.A./B.Sc. (Semester System) (12+3 System of Education) (Semester–II) (Session 2019-20) (Faculty of Economics & Business)

SEMESTER–II
TOURISM AND HOTEL MANAGEMENT (VOCATIONAL)

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
Growth and development of tourism in India

SECTION–B
Definition, nature and characteristics of tourism, Types and components of tourism

SECTION–C
Impacts of Tourism- Socio–cultural impacts, Economic impacts, Environmental impacts

SECTION–D
Tourism as an industry; India a destination for all; Case study of ITDC.

Note: One tour/summer training is compulsory every year of which the students shall prepare “A Tour/Project Report”. This report shall be evaluated by the examiner and shall be given grades A, B & C.

Training: One Month
During the summer vacation one month training is a must.
TOURISM AND TRAVEL MANAGEMENT
(VOCATIONAL)

TOURISM PRODUCT OF 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

Tourist Resources: Definition and differentiation, typology of tourism resources
Cultural Resources: Historical Museums of India, Fairs and festivals of India, Customs and Costumes of India.

SECTION–B

Socio Cultural Resources: Historical Monuments of ancient, medieval and modern period, Archaeological sites of India, Art galleries of India, Libraries of India, Religious centres and Shrines of all religions

SECTION–C

Social Cultural Resources: Performing arts of India-Dances, Music, Handicrafts, Yoga and Meditation

SECTION–D

Beach Tourism with special reference to Mumbai, Goa and Kerala
Island Tourism with special reference to Andaman and Nicobar Islands
Desert Tourism

Books Recommended:-
3. Bhartiya Vidya Bhawan Imperial UNITY.
5. Basham Al. L. The Wonder that was India: Rupa and Co., Delhi, 1988.
SEMESTER–II

TAX PROCEDURE & PRACTICES

INCOME TAX LAW–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

Computation of Total Income and Tax Liability of Individuals; Assessment of Agriculture Income. Rates of Tax. Advance Tax

SECTION–B

Computation of Total Income and Tax Liability of HUF; (Hindu undivided Family)
Computation of Total Income and Tax Liability of Firms.

SECTION–C

Computation of total income and tax liability of corporative society.
Assessment of Companies: - Meaning; Types situations in which company may be treated as widely held company; determination of Residential status; Computation of Total Income.

SECTION–D

Provisions of MAT;
How to determine book profit u/s 115 Dividend Tax
Tax Deducted at Source

Suggested Readings:-
SEMESTER–II
ADVERTISING SALES PROMOTION AND SALES MANAGEMENT
(VOCA TIONAL)

Periods per Week

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IIInd Semester: Advertising–I

On–the–Job Training’ of 4 Weeks

1. A consolidated report on the job training shall be prepared by every student and, must be
submitted in the college concerned. The consolidated report will be evaluated by the external
examiner and shall be given in the grades as follows :
   O – Outstanding
   A – Very Good
   B _ Good
   C _ Average
   D _ Unsatisfactory

In case the training report as rated as unsatisfactory, the candidate shall have to submitted it
again incorporating the changes suggested by the examiner, within one month from the date of
intimation to the candidate by the concerned college.

Advertising Sales Promotion and Sales Management
Objectives:
This course is intended to impart knowledge and develop skill among the participants in the field
of marketing communication, so as to equip them to man junior and lower–middle level
positions in the fast–growing and challenging business areas of advertising, sales promotion,
selling and sales management and Public relations. The course shall consist of six papers, two
each of the three years of under graduate programme in the Indian Universities and other
institutions. The six papers are:
   1. Marketing Communication.
   2. Advertising–I
   3. Advertising–II
   4. Personal Selling and Salesmanship.
   6. Sales Promotion and Public relations.

All the papers will be handle so as to have practical orientation, with Indian cases and examples.
SEMMESTER–II

ADVERTISING SALES PROMOTION AND SALES MANAGEMENT (VOCATIONAL)

ADVERTISING–I

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

Importance of advertising in modern marketing. Role of advertising in the national economy.

SECTION–B

Types of advertising: Commercial and noncommercial advertising; primary demand and selective demand advertising; classified and display advertising; comparative advertising; cooperative advertising.

SECTION–C

Setting of advertising objectives, Setting of advertising budget, Factors affecting the advertising expenditure in a company.

SECTION–D

Advertising message, Preparing and effective advertising copy; elements of a print copy; headlines, illustration, bodycopy, slogan, logo seal of approval role of colon, elements of a broadcast copy, copy for direct mail.

Suggested Readings:-

B.A./B.Sc. (Semester System) (12+3 System of Education) (Semester–II) (Session 2019-20)
(Faculty of Economics & Business)

SEMESTER–II

COMMERCE

BOOK KEEPING AND ACCOUNTANCY

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.

50% numerical problem should be asked.
The candidates are allowed to use simple (Non–Scientific) calculators.

SECTION–A
Generally accepted accounting principles, concepts, Convention, theory and practice of Double Entry system of book keeping.

SECTION–B
Subsidiary Books and ledger, Trial Balance, Bank reconciliation statement, Errors and their Rectifications.

SECTION–C
Preparation of trading profit and loss Account and Balance sheet of sole trader and partnership, Treatment of capital and Revenue expenditure.
Preparation of receipts and payments account and income and expenditure accounts.
Bills of exchange.

SECTION–D
Elementary knowledge of consignment and joint venture, Indian System of book keeping (Mahajani lekha vidhi).

Books Recommended:-

Note:-
1. The candidates will visit major (trading/ manufacturing/ services) Organisation with view to be acquainted with the different systems of book keeping.
2. The college will organise at least five lectures by experts/ professional. Accountants on final Accounts/maintenance of different books of accounting.
SEMESTER–II
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

SECTION–C

SECTION–D

Books Recommended:-
SEMESTER–II

MATHEMATICS

PAPER–II: CALCULUS

Time: 3 Hours

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:

SEMMESTER–II

STATISTICS

PAPER–I: STATISTICAL METHODS – II

Time: 3 Hours
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
Bivariate data, scatter diagram, covariance, Karl–Pearson’s correlation coefficient and its properties, calculation of correlation coefficient from grouped data, bounds of the correlation coefficient, interpretation of the value of the correlation coefficient.

SECTION–B
Spearman’s rank correlation coefficient, The principle of least squares, fitting of straight line, polynomials, exponential, logarithmic curve.

SECTION–C
Regression lines, relation between correlation coefficient and regression coefficients.

SECTION–D
Independence and association of attributes, measures of association, contingency table.

Books Recommended:-

Books Suggested for Supplementary Reading:-
SEMESTER–II

STATISTICS

PAPER-II: PROBABILITY DISTRIBUTIONS

Time: 3 Hours  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
Discrete Distributions: Uniform distribution, Bernoulli distribution, Binomial distribution, Poisson distribution, Poisson distribution as limiting form of Binomial distribution, Fittings of Binomial and Poisson distributions,

SECTION–B
Geometric distribution, Pascal distribution and Hyper geometric distribution. Properties, expected value, variance and moment generating functions of these distributions.

SECTION–C
Continuous Distributions: Normal distribution, Fitting of normal distribution, Exponential distribution, Uniform distribution.

SECTION–D
Gamma distribution, Beta distribution. The properties of these distribution including their expected values, variances and moment generating functions

Books Recommended:-

Books Suggested for Supplementary Reading:-
SEMESTER–II

STATISTICS

PAPER–III: - PRACTICAL BASED ON PAPER–I: STATISTICAL METHODS–II AND
PAPER–II: PROBABILITY DISTRIBUTIONS

Time: 2 Hours                      Marks: 30

Teaching time for practical paper would be one hour per week.

List of practical exercises

1. Exercises on calculation of Karl Pearsons correlation coefficient
2. Exercises on calculation of Spearman’s rank correlation coefficient
3. Exercises on fittings of regression lines, polynomials, exponential and logarithmic curves.
4. Exercises on fittings of Binomial, Poisson and Normal Distributions
5. Exercises on calculation of probabilities for Binomial, Poisson and Normal Distributions

Students are required to prepare a practical note book with at least 15 exercises based upon the above list. At the end of semester, there is a practical examination jointly conducted by two examiners (one is internal and other one is external). External examiner is appointed by the university and the internal examiner is appointed by the principal of the concerned college. This practical examination will cover a written test followed by a viva-voce to test the practical knowledge of students about the contents. The candidates are allowed to use Non–Programmable calculators. The distribution of marks is as under:

1. Practical Note book: 05
2. Viva – voce: 10
3. Exercises: 15
SEMESTER–II

CHEMISTRY (INORGANIC CHEMISTRY–II)
(THEORY)

Time: 3 Hrs.
45 Hrs. (3 Hrs./Week)  
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

I. p–Block Elements–I  
10Hrs.

Comparative study (including diagonal relationship) of groups 13–17 elements, compounds like hydrides, oxides, oxyacids and halides of groups 13–16, hydrides of boron–diborane and higher boranes, Borazine, borohydrides, fullerenes.

SECTION–B

II. s-Block Elements  
10 hrs.

Comparative studies, diagonal relationship, salient features of hydrides, salvation and complexation tendencies.

III. Acids and Bases

Arrhenius, Bronsted-Lowry, the Lux-Flood, solvent system and Lewis concepts of acids and bases.

SECTION–C

IV. p–Block Elements-II  
10 Hrs.

Carbides, fluorocarbons, silicates (structural principle), tetrasulphur tetraniitride, basic properties of halogens, interhalogens and polyhalide, Silicones and phosphazenes as examples of inorganic polymers, nature of bonding in triphosphazenes.

SECTION–D

V. Chemistry of Transition Elements  
15 Hrs.

Characteristic properties of d–block elements. Properties of the elements of the first transition series, their simple compounds and complexes illustrating relative stability of their oxidation states, coordination number and geometry. General characteristics of elements of Second and Third Transition Series, comparative treatment with their 3d analogues in respect of ionic radii, oxidation states, magnetic behaviour.
Books Suggested:-

11. Inorganic Chemistry, A.G. Sharpe, ELBS.
SEMESTER–II

CHEMISTRY (PHYSICAL CHEMISTRY–I)
(THEORY)

Time: 3 Hrs.  Marks: 35
45 Hrs. (3 Hrs./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.

Note: Log table and scientific calculators are allowed

SECTION–A

I. Gaseous States  11 Hrs.
Postulates of kinetic theory of gases, deviation from ideal behaviour, van der Waal’s equation of state.

Critical Phenomena: PV isotherms of real gases, continuity of states, the isotherms of van der Waal’s equation, relationship between critical constants and van der Waals constants, the law of corresponding states, reduced equation of state.

Molecular Velocities: Root mean square, average and most probable velocities. Qualitative discussion of the Maxwell’s distribution of molecular velocities, collision number, mean free path and collision diameter. Liquefaction of gases.

SECTION–B

II. Liquid State  11 Hrs.
Intermolecular forces, structure of liquids (a qualitative description). Structural differences between solids, liquids and gases. Liquid crystals: Difference between liquids crystal, solid and liquid. Classification, structure of nematic and cholesteric phases. Thermography and seven segment cell.

SECTION–C

III. Colloidal State  11 Hrs.
IV. Solutions, Dilute Solutions and Colligative Properties  12 Hrs.


Books Suggested:-

SEMESTER–II

CHEMISTRY
(PRACTICAL)

Duration: 3½ Hrs.  
Marks: 30

6 Period/Week

Crystalisation:
Concept of indication of crystalisation. Phthalic acid from hot water (using fluted filter paper & stem less funnel)
Acetanilide from boiling water.
Naphthalene from Ethanol
Benzoic acid from water

Physical Chemistry
1. To determine the specific reaction rate of hydrolysis of ethyl acetate catalysed by Hydrogen ions at room temperature.
2. To study the effect of acid strength on hydrolysis of an ester.

Viscosity, Surface Tension (Pure Liquids)
3. To study the viscosity and surface tension of CCl glycerine solution in water.
4. To determine the solubility of benzoic acid at different temperatures and to determine H of the dissolution process.
5. To determine the enthalpy of neutralisation of a weak acid/weak base versus strong base/strong acid and determine the enthalpy of ionisation of the weak acid/weak base.
6. To determine the enthalpy of dissolution of solid calcium chloride and calculate the lattice energy of calcium chloride from its enthalpy data using Born Haber cycle.

Practical Examination:

1) Crystalisation  05
2) Physical Experiment  18
3) Viva–Voce  04
4) Note Book  03

Books Suggested:-
SEMESTER–II

PHYSICS
PAPER–A: RELATIVITY AND ELECTROMAGNETISM
(THEORY)

Time: 3 Hours
Total Teaching Hrs: 45(3h/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
Postulates of special theory of relatively. Lorentz transformations, observer and viewer in relativity. Relativity of simultaneity, Length, Time, velocities. Relativistic Doppler effect. Variation of mass with velocity, mass–energy equivalence, rest mass in an inelastic collision, relativistic momentum & energy, their transformation, concepts of Minkowski space, four vector formulation.

11 Lectures

SECTION–B
Invariance of charge, E in different frames of references. Fields of a point charge moving with constant velocity, Lorentz’s force, Definition of B. Biot Savart’s Law and its application to long straight wire, circular current loop and solenoid. Ampere’s Circuital law and its application. Divergence and curl of B. Hall effect, derivation of Hall co–efficient. Vector potential, current–density and its applications. Transformation equation of E and B from one frame to another.

11 Lectures

SECTION–C

11 Lectures

SECTION–D
Maxwell’s equations their derivation and characterizations, E.M. waves and wave equation in a medium having finite permeability and permittivity but with conductivity σ). Poynting vector, Impedance of a dielectric to EM waves. EM waves in a conducting medium and Skin depth. EM wave velocity in a conductor and anomalous dispersion. Response of a conducting medium to EM waves. Reflection and transmission of EM waves at a boundary of two dielectric media for normal and oblique incidence.

12 Lectures

Books Suggested:-
1. Introduction to Electrodynamics: D.J. Griffiths
B.A./B.Sc. (Semester System) (12+3 System of Education) (Semester–II) (Session 2019-20)
(Faculty of Sciences)

SEMESTER–II

PHYSICS

PAPER–B: VIBRATION AND WAVES
(THEORY)

Time: 3 Hours
Total Teaching Hrs: 45(3h/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
Simply harmonic motion, energy of a SHO. Compound pendulum. Torsional pendulum
Electrical Oscillations Transverse Vibrations of a mass on string, superposition of two perpendicular SHM having periods in the ration 1:1 and 1:2.
11 Lectures

SECTION–B
11 Lectures

SECTION–C
12 Lectures

SECTION–D
11 Lectures

Books Suggested:-
SEMESTER–II

PHYSICS
(PRACTICAL)

Marks: 30

General Guidelines for Practical Examination:

I. The distribution of marks is as follows:
   i) One experiment 15 Marks
   ii) Brief Theory 5 Marks
   iii) Viva–Voce 5 Marks
   iv) Record (Practical file) 5 Marks

II. There will be one sessions of 3 hours duration. The paper will have one session.
   Paper will consist of 8 experiments out of which an examinee will mark 6 experiments
   and one of these is to be allotted by the external examiner.

III. Number of candidates in a group for practical examination should not exceed 12.

IV. In a single group no experiment be allotted to more than three examinee in any group.

1. To determine low resistance with Carey-Foster’s Bridge.
2. To study the magnetic field produced by a current carrying solenoid using a search coil
   and calculate permeability of air.
3. To study the induced e.m.f. as a function of the velocity of the magnet.
4. Study of phase relationships using impedance triangler for LCR circuit and calculate
   impedance.
5. Resonance in a series LCR circuits for different R–value and calculate Q–value.
6. Resonance in a parallel LCR circuits for different R-value and calculate Q-value.
7. Capacitance by flashing and quenching of a neon lamp.
8. To compare capacitance of two capacitors by de–Sauty’s bridge.
9. To determined L using Anderson Bridge.
10. To find the value of $B_H$ the horizontal component of earth’s magnetic field in the lab
    using a deflection & vibration magnetometer.
11. To study the variation of magnetic field with distance along the axis of coil carrying
    current by plotting a graph.
SEMESTER–II

HOME SCIENCE
(THEORY)

FAMILY RESOURCE MANAGEMENT AND PHYSIOLOGY

Time: 3 Hours

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. Meaning & Definition of Home Management. Steps in management process
2. Furniture: Basic considerations while selection of furniture.
3. Flower Arrangement: Types, Essential equipment used in flower arrangement, Selection of material, Application of elements and principles of Art in Flower Arrangement

SECTION–B
4. Resources: Classification of resources, Human & Nonhuman, Factors affecting the use of resources.
5. Money Management: Types of income, Budget, its advantages and limitations.
   Planning of Budget
   Means of supplementing family income.
6. Time: Steps in making plans, tools in time management—peak loads, work curves, rest periods.
7. Energy Management:
   • Introduction
   • Fatigue—types causes and effects of fatigue
   • Principles of work simplification

SECTION–C
8. Circulatory System
   Blood and its composition
   Coagulation of blood
   Structure and functions of heart.

SECTION–D

References Books:
Sr.no. Book title Author
1. Management for Modern Home Gross
2. Family Resource Management & Health Science Dr. Rajwinder K. Randhawa
3. Home Management for Indian Families Mann, Mohinder K.
4. Textbook of Home Science Neelam Garewal
B.A./B.Sc. (Semester System) (12+3 System of Education) (Semester–II) (Session 2019-20) (Faculty of Sciences)

SEMESTER–II

HOME SCIENCE

FAMILY RESOURCE MANAGEMENT
(PRACTICAL)

Time: 3 Hrs. Marks: 40

1. Cleaning of window pane, Refrigerator, Food Processor, Microwave, Gas Burner, Cooking Range.
2. Flower Arrangements– Fresh & Dry Arrangement.
3. Table Manners, Table setting and Napkin Folding.
4. Craft workshop – Glass Painting, pot painting, utility article like bag, magazine holder, pot holder etc.
5. To prepare any article using the above techniques.

Instructions for the Practical Examiner:

There will be 2 questions from the syllabus.

a. Fresh flower arrangement-10 marks
b. Preparation of utility/decorative article-15 marks
c. Files and schemes -10 marks
d. Viva -5 marks
SEMESTER–II

COSMETOLOGY (VOCATIONAL)
(THEORY)

Time: 3 hrs. 
Periods/Week-6 
Total Marks: 100 
Theory Marks: 40 
Practical Marks:60

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.

OBJECTIVES
To create awareness about the colours & yoga
To impart knowledge of Nails and Visual Poise

SECTION–A

Nail
• Structure of nail
• Disorder and Disease of the nails

SECTION–B

Colours
• Basic knowledge of colours: Primary & Secondary.
• Colours, effects and selection acc. To season and occasion.
• Planning of wardrobe and acc. To figure, complexion, occupation and weather.

SECTION–C

Visual Poise
• Corrective stance, standing, walking, sitting.

SECTION–D

Yoga
• What is Yoga?
• Role of Yoga for a good health.

References Books:
1. The complete book of beauty by Sunnydale, halena
3. Text book of Cosmetics by Vimla Devi M
4. Instant skin care, how to have health hassle free skin by Nortan Sally
5. Massage made easy by Mc Gilvery Carole
SEMESTER–II

COSMETOLOGY (VOCATIONAL)
(PRACTICAL)

Time: 4hrs.  Marks: 60
Periods/Week – 6

Note: Paper will be set on the spot by the examiner.
Project file will be evaluated by External Examiner which carries – 10 marks.

1. Nails and Hand care:
   a) Plain Manicure
   b) Manicure Pedicure
   c) Pedicure Spa
   d) Artificial Spa
   e) Waxing, Threading

2. Yoga Asanas:
   a) Guide line for Yoga practice
   b) Asanas:
      i) Virbhadrāsana
      ii) Tar Asana
      iii) Dhanurāsana
      iv) Padmasana
      v) Bhujangasana
SEMMESTER-II

CLINICAL NUTRITION AND DIETETICS (VOCATIONAL)

PAPER–A: MEAL MANAGEMENT (THEORY)

Time-3 hrs  Marks: 40
Pds-4/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.

OBJECTIVE: To enable the students to acquire knowledge of the principles of planning diets for various age groups and socio-economic levels.

SECTION–A
1. Balanced diet: Concept of Balanced Diet, Food Groups, Exchange Lists, Definition and Objectives of RDA, RDA for different age groups. (ICMR)
2. Caloric consumption units in planning meals for a family.

SECTION–B
4. Physiological changes and nutritional requirement during pregnancy and lactation.
5. Growth & development and nutritional requirement during infancy breast feeding /vs. bottle feeding and weaning, immunization schedule.

SECTION–C
6. Growth & development, food habits and nutritional requirement of preschooler, school going and adolescent boy and girl.
7. Nutritional requirement for adult male & female (Sedentary, moderate & heavy worker).
8. Physiological changes during old age and meeting their nutritional requirement.

SECTION–D
### CLINICAL NUTRITION AND DIETETICS (VOCATIONAL)

#### References Books:

<table>
<thead>
<tr>
<th>Sr. No.</th>
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<tbody>
<tr>
<td>1</td>
<td>Food Science and Nutrition</td>
<td>2018</td>
<td>Sunetra Rodey</td>
<td>3rd</td>
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<td>2</td>
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SEMESTER–II

CLINICAL NUTRITION AND DIETETICS (VOCATIONAL)

PAPER–B: FOOD MICROBIOLOGY (THEORY)

Time-3 hrs  
Marks: 40
Pds-6 Pds/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.

OBJECTIVE
To help students to acquire knowledge about microorganism.
To develop an understanding of the role of microorganism in environment, industry and maintenance of health.

COURSE CONTENT

SECTION–A
1. Introduction to microbiology and its relevance to everyday life. General Morphology of Microorganism general characteristics of bacteria, fungi, virus, protozoa, algae.
2. Control of microorganism growth curve, effects of environmental factors on growth of Microorganism - Ph. water activity, oxygen availability, temp and others.

SECTION–B
3. Microbiology of different foods- Spoilage and contamination sources types effect on the following.
   a) Cereals and cereal products
   b) Sugar and Sugar products
   c) Vegetable and fruit
   d) Meat and Meat products
   e) Fish and other sea foods.
   f) Eggs and poultry
   g) Milk and Milk products
   h) Canned foods.

SECTION–C
4. Environmental microbiology- water, air, soil and sewage other agent of contamination humans, domestics animals, vermins, birds, hormones, antibiotics, chemical and metal contamination.
5. Relevance of Micro Biological standards for food safety.

SECTION–D
6. Microbial intoxications and infections sources of contamination of foods, toxin production and physiological organism- Symptoms and methods of control.

References:
## SEMESTER–II

**CLINICAL NUTRITION AND DIETETICS (VOCATIONAL)**

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SEMESTER–II

CLINICAL NUTRITION AND DIETETICS (VOCATIONAL)

MEAL MANAGEMENT (PRACTICAL)

Time-3 hrs  Marks: 20
Pds- 6 Pds/Week

Note: Paper will be set on the spot by the Examiner

Instructions for the Paper Setters:
1. One dish of any cooking method. (5 Marks)
2. Preservation (5 marks)
3. Recipe file. (5 Marks)
4. Viva (5 Marks)

Practical:

Planning, preparation and calculation (using exchange list, detail calculation of protein, energy & one essential mineral or vitamin needed for that group) of diets for:
   (a) Infancy-weaning food.
   (b) Pre-school.
   (c) School going child.
   (d) Adolescent girl and boy
   (e) Adult male female (sedentary moderate and heavy worker)
   (f) Pregnant and lactating Women
   (g) Old Age

Preparation of dishes by following methods:
   a) Baking- e.g. Cakes & Biscuits, Continental dishes etc.
   b) Grilling- e.g. Pizza and variation of sandwiches, grilled and tandoori snacks etc.
   c) Sprouting & Salads.
   d) Microwave cooking
   e) Preservation: jams, pickles, squashes, chutneys, etc

Daily and occasional cleaning of kitchen equipments, utensils counters, floor and cupboards.

References:
SEMESTER– II
FASHION DESIGNING AND GARMENT CONSTRUCTION
(VOCATIONAL)
FASHION DESIGNING - II
(THEORY)

Time: 3 Hrs.                                                                                                        Max Marks: 100
Period: 3/Week                                                                                                       Theory Marks: 40
Practical Marks: 60

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. (a) Concept of Fashion forecasting- Awareness factor, Measurements and Indicators.
   (b) Sources of Inspiration.

SECTION–B
2. Size and structure of Fashion Market

SECTION–C
4. Promotion of Fashion.
   (a) Advertising.
   (b) Publicity.
   (c) Fashion show.

SECTION–D
5. Concept of Fashion Distribution
   (a) Departmental store
   (b) Speciality store
   (c) Chain store
   (d) Mill showroom
   (e) Factory Outlets
   (f) Catalogue Retail
   (g) Discount store
   (h) Designer retail store
   (j) Boutique

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<td>1.</td>
<td>Merchandise Buying and Management</td>
<td>Donnellan, John</td>
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<td>2.</td>
<td>Fashion and Advertising</td>
<td>Keaney, Madalene</td>
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<tr>
<td>3.</td>
<td>Fashion Forecasting</td>
<td>McKIvery, K.</td>
</tr>
<tr>
<td>4.</td>
<td>Fashion Advertising</td>
<td>Keaney, Madalene</td>
</tr>
</tbody>
</table>
SEMESTER–II

FASHION DESIGNING AND GARMENT CONSTRUCTION (VOCATIONAL)
SCALE DRAWING AND GARMENT CONSTRUCTION
(PRACTICAL)

Time: 5 Hrs.          Marks: 60
Periods/week: 2x6

Instructions for the Paper Setters:
1. Construction of any one garment from Section A.    Marks: 25
2. One question from Part B.                Marks: 25
3. File Work.                                 Marks: 10

SECTION–A

2. Design, Draft and construct the following:
   a) Romper/Sun Suit
   b) Designer Frock (3–6 yrs)
   c) Sleeves – puff, cap, petal, magyar, kimono.
   d) Collars – Peter pan, cape, sailor’s, baby

SECTION–B

3. Using any of the following details drape the fashion figures, preparing 10 sheets in all using Textured backgrounds.
   (i) Bias/Drapes
   (ii) Yokes + Waistlines
   (iii) Bows + Pockets
   (iv) Drawstrings + Fasteners + Zips
   (v) Trimming (Tucks, Piping, Embroidery, Tassels, Rouleau, Smocking, Shirring, Appliqué, Patch work).
   (vi) Tops
   (vii) Accessories–Bags, Footwear, Jewellery.

4. a) Value Chart, Intensity chart
    b) Basic Design Motifs – Geometrical, Traditional, Abstract.
SEMESTER–II

EARLY CHILDHOOD CARE AND EDUCATION (VOCATIONAL)
(THEORY)

Time: 3 Hrs. PerIODS/week: 6 Theory
Max. Marks: 100
Practical Marks: 40

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 Development: Definition, Principles of Physical Development, Physical Growth Cycles
2. Factors affecting Physical Growth Cycles.

SECTION–B
3. Motor Development: Definition. Motor Skills (hand and leg skills),

SECTION–C

SECTION–D
7. Social Development: Definition, Social Development during Infancy & Childhood, Role of Family & School in socialization of child.
8. Play: Meaning & Importance of Play, Selection of suitable toys & Play Material for the child.

(PRACTICAL)

Time: 3 Hrs
Periods/week: 4

Instructions for the Paper Setters:
Question Paper will be set on the spot by the examiner

Distribution of marks for practical examination
Written Practical: 10 Marks
Class Performance: 10 Marks
Practical File: 5 Marks
Oral examination: 5 Marks
Preparation of activity material: 10 Marks

Course Content:
1. Conduct a Height/ Weight Survey on a sample of 25 School going children assessing their physical development.
3. Prepare an Educational Toy suitable for a pre–school/ school going child.
4. Prepare a toy using house–hold material.
5. Exhibit appropriate safety measures for the child using posters or leaflets
SEMESTER–II

FOOD SCIENCE AND QUALITY CONTROL (VOCATIONAL)
FSQC (3): FOOD PLANT HYGIENE & SANITATION (Theory)

Time: 3 Hours                           Max. Marks: 75

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
Importance of personal hygiene of food handler-habits, clothes, illness, education of handler in handling and service. Cleaning agents and disinfectants.

SECTION–B
Cleaning methods – sterilization, disinfection, heat & chemicals, chemical tests for sanitizer strength.

SECTION–C
Food sanitation-Principles & methods, control, inspection. Sanitation in fruits & vegetables industry, cereals industry, dairy industry, meat, egg & poultry units.

SECTION–D
Control of infestation, rodent control, vector control, Use of pesticides. Hygiene of water used for processing. Planning & implementation of training programmes for health personnel. Waste disposal and treatment.

Recommended Books: -

FSQC (4): FOOD PLANT HYGIENE & SANITATION (PRACTICAL)

Max. Marks: 25

Instructions for the Paper Setters: Question Paper will be set with the mutual consent of Internal and External Examiners at the spot.

List of Practical

1. Sterilization of equipments used in the laboratory by using heat and chemicals.
2. Determination of B.O.D
3. Determination of C.O.D
4. Determination of sanitary status of plant equipment.
5. Chlorination of water.
6. To study the bacteriology of water.
7. Chemical analysis of water.
SEMESTER–II
FINE ARTS
PAPER–A: FINE ARTS (DRAWING & PAINTING)
(THEORY)

Time: 3 Hrs.

Max. Marks 100
Theory Marks: 50
Practical Marks: 25+25

Work Load:
Theory - 3 periods per week.
Practical - 9 periods per week.
Total - 12 periods per 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

Mauryan Art:
What do you mean by Mauryan Pillars?
Lion Capital of Sarnath
Bull Capital from Rampurva
Yakshi from Didarganj
Yaksha from Parkham

SECTION–B

Stupa, Chaityas and Viharas
Karle and Bhaja Caves
Bharhut Sculptures:
Dream of Queen Maya
Cholakoka Devata

SECTION–C

Sanchi Stupa
Amaravati

SECTION–D

Kushana Period:
Mathura Art
(i) Portraits–Kanishka and Vima Kadaphises
(ii) Seated Buddha from Katra
(iii) Head of Buddha
(iv) Gandhara Art
(v) Standing Bodhisattava
SEMESTER–II
FINE ARTS
PAPER–B: STILL LIFE STUDY
(PRACTICAL)

Time: 5 Hrs

Marks: 25

Work Load:
Theory - 3 periods per week.
Practical - 9 periods per week.
Total - 12 periods per week.

Study different type of still objects. Emphasis should be given to Proportion, Volume, Texture and light and shade.

Number of Objects: Three excluding drapery.
Medium: Any Medium
Size: ½ Imperial
SEMESTER–II
FINE ARTS

PAPER–C: POSTER / BOOK COVER
(PRACTICAL)

Time: 5 Hrs

Marks: 25

Work Load:
Theory - 3 periods per week.
Practical - 9 periods per week.
Total - 12 periods per week.

Prepare creative posters on social awareness and advertisement, study of letter writing in number of colors.
At least 5 works. (3 posters & 2 book covers) will be prepared.

Medium: - Poster Colors
Size: - ½ Imperial

Book Cover Design
Block lettering, Roman Lettering and free hand brush lettering.
To design book cover with illustration title, author’s name etc. in any number of colors.

Medium: - Poster Colors.
Size: - ½ Imperial

Candidates will submit:
5 Sheets of each paper.
Sketch book containing 50 sketches.
SEMMESTER-II

GEMOLOGY AND JEWELLERY DESIGN (VOCATIONAL) (THEORY)

Time: 3 Hrs.  Max. Marks: 100
Theory Marks: 50  Practical: 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. Basic Introduction of Gem Stones with examples:
   (i) Organic Gems
   (ii) Inorganic Gems
2. Formation of Gem Stones with examples:
   (i) Igneous Rocks
   (ii) Sedimentary Rocks
   (iii) Metamorphic Rocks

SECTION – B
1. Introduction to Jewellery:
   (i) Fine Jewellery
   (ii) Costume design Jewellery

SECTION – C
Introduction to Metals, Physical Properties:
   (i) Precious Metals: GOLD, PLATINUM, SILVER
   (ii) Semi-precious Metals: COPPER, IRON

SECTION – D
   (i) Characteristics of natural gems
   (ii) Synthetic gem stones
   (iii) Association of Navgrah and gemstones (Gem therapy)
   (iv) Identification of gem stones by their color and inclusions
SEMESTER–II

GEMOLOGY AND JEWELLERY DESIGN (VOCATIONAL)
INNOVATIVE JEWELLERY DESIGN
(PRACTICAL)

Time: 5 Hours

Instruction for the Paper Setters:

The Paper will be set by the external examiner on the spot out of prescribed syllabus.

Exercises on:

i) Learning basic techniques of jewellery making like jump–ring, threading of beads, etc.

ii) Different techniques and methods of creating jewellery and accessories like wearable belts, hair accessories using innovative materials like paper, plastic, jute, threads, wires, beads, macramé, etc.

Each student has to submit 20 such pieces of jewellery and accessories at the end of second semester.
SEMESTER–II

STILL PHOTOGRAPHY & AUDIO PRODUCTION (VOCATIONAL)
(THEORY)

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


Press Laws in India: History of press Laws in India, Press Registration Act, Copyright and Defamation, Contempt of Court.

SECTION–B

Forms of communication: Traditional forms of Communication.
(i) News reporting and editing.
(ii) Newspaper Layout, News Analysis.
(iii) Desktop publishing techniques and word Processor.

SECTION–C


SECTION–D

Lens Aberration: Lens aberration, lens equation, correction of aberrations, ray diagram.
Comparison of human eye with the camera.
Processing of light sensitive chemical, latent image, development, fixing.

Suggested Readings:-

<table>
<thead>
<tr>
<th>Sr. No.</th>
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<tbody>
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<td>1.</td>
<td>Hand Book of Journalism &amp; Mass Communication</td>
<td>Mr. Vir Bala Aggarwal</td>
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<tr>
<td>2.</td>
<td>Dark Room Basics… And Beyond</td>
<td>Roger Hicks &amp; Frances Schultz</td>
</tr>
<tr>
<td>3.</td>
<td>Basic Photography</td>
<td>John Hedgecoe</td>
</tr>
</tbody>
</table>
SEMESTER–II

STILL PHOTOGRAPHY & AUDIO PRODUCTION (VOCATIONAL)

BASIC PHOTOGRAPHY

(PRACTICAL)

Time: 6 Hours                      Marks: 50

Instructions for the Paper Setters:
1. The paper will be set by the external examiner on the spot considering the syllabus.
2. Creative work on the part of the students is to be emphasized.
   Technical competence is expected. The students should also use updated and latest
techniques in his/her work.
3. Photographs clicked during examination are supposed to be submitted by the student in the
   form of C.D. or D.V.D. as desired by the examiner.
4. Extra weightage will be given for creative and professional approach.

Instructions for the Students:
1. Attendance in departmental seminars and extension lectures and college tours shall be
   obligatory for all students.
2. Students are not allowed to use previous clicked Photographs.
3. Sizes of photographs will be given by External Examiner (Class– Teacher) as per
   requirement.

Course Contents:
1. Operations.
2. Exposure, tables of lighting, T.C.R.S.C.R. films format: large, medium miniature disc etc.
3. Photograph.
5. Contact print.
6. Enlargements B/W.
7. Photo feature.

Suggested Readings:

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</table>
SEMINSTER–II

APPLIED ARTS

ART APPRECIATION AND ADVERTISING
(THEORY)

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

Colour Wheel: Introduction of colour wheel and its elements - Primary, Secondary, and Tertiary etc.
Colours of Colour Wheel: All colours of colour wheel and symbolic value of every colour.

SECTION–B

Types of Colour Scheme: Monochromatic, Complementary, Analogus, Achromatic and Polychromatic colour scheme with examples.

SECTION–C

Methods and material: Basic Tools used by Applied Artist according to the projects and importance of tools.
Need of Applied Artist: List the points which describe the need of applied artists in today’s world and its scope.

SECTION–D

Meaning of Applied Arts: Definition of Applied Art with detailed introduction and its characteristics.
Difference between Applied and Fine Arts: Give difference between both the style of arts including its methods, techniques and etc. with appropriate examples.

Suggested Readings:-

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>2000 Color Palette Swatches</td>
<td>Graham Davis</td>
</tr>
<tr>
<td>2.</td>
<td>Logo Cafe</td>
<td>Page 1 Publisher</td>
</tr>
</tbody>
</table>
SEMESTER–II
APPLIED ARTS

ILLUSTRATION (SKETCHING) / FASHION FIGURES
(PRACTICAL)

Time: 6 Hours  Marks: 50
Size: ¼ imperial
Medium: Pencil, Charcoal, Pen & Ink, Water Colors and Poster Colors

Instructions for the Paper Setters:
1. The paper will be set by the Examiner on the spot considering the syllabus.
2. Imaginative and Creative work on the part of the students is to be emphasized. Imagination and Technical competence is expected. The students should also use updated and latest techniques in his/her work.
3. Extra weightage will be given for creative and professional approach.

Instructions for the Students:
1. Attendance in departmental seminars and extension lectures and college tours shall be obligatory for all students.

Course Contents:

Suggested Readings:-

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</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Human Figures</td>
<td>Papin Press Publisher</td>
</tr>
<tr>
<td>2.</td>
<td>Illustration Now 3</td>
<td>ED Jullis Wiedeall</td>
</tr>
</tbody>
</table>
SEMMESTER–II

SCULPTURE
(THEORY)

Time: 3 Hours

Max. Marks: 100
Theory Marks: 50
Practical 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

Canons of Indian Art (Shadanga),
Bhangas in Indian Sculptures

SECTION–B

Artists (only with reference to one sculpture),
D.P. Chaudhary: The Triumph of Labour
Ramkinker Baij: Santal Family

SECTION–C

Chintamani Kar: Skating the stag
Prodosh Das Gupta: Volume in three masses
Sankho Chaudhary: Standing Figure:

SECTION–D

Dhanraj Bhagat: Flute Player
Balbir Singh Katt: Sun 85
SEMESTER–II

SCULPTURE
(PRACTICAL)

Time: 6 Hours  
Marks: 50

1. Relief in Plaster and Terracotta (Total Work: 2)
2. Head Study (Cast in Plaster, Total work 1)
3. Figure Composition in Paper Clay or M–Seal (Total work 2)
SEMMESTER-II

MUSIC (VOCAL)

(THEORY)

Max. Marks: 100
Theory Marks: 50
Practical Marks: 50

Time: 3 Hours

Teaching 3 periods per 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. Historical Development of Indian Music in Vedic Period
2. Definition and explanation of the following Musical Terms: Raga, Thata, Vadi, Samvadi, Meend.

SECTION–B

SECTION–C
5. Description and notation of the following Ragas: Kalyan, Asavari, Kafi.
6. Description and notation of the following Taals: Kehrva, Ektal.

SECTION–D
8. Definition and explanation of the following terms in the context of Gurmat Sangeet: Ashtpadi, Ank, Kirtaniya, Pada.
SEMESTER–II

MUSIC (VOCAL) (PRACTICAL)

Time: 20 Minutes Marks: 50

Teaching 9 periods per week

1. One Drut Khayal in each of the following Ragas with simple Alaps and Tanas: Kalyan, Asavari, Kafi.
2. One Vilambit Khayal in any of the Ragas prescribed in the course with simple Alaps and Tanas.
3. Elementary Knowledge of the following non–detailed Ragas: Jaunpuri, Bhimplasi, Shudh Kalyan.
4. One Shabad from prescribed Ragas.
5. Ability to play five alankars on the Harmonium based on the Thatas of prescribed Ragas in the course.
6. Ability to recite Kehrva and Ektal showing Khali Tali with hand motion in Ekgun, Dhugan Layakaries.
7. Recitation of Suhag.
8. Ability to play thekas of Keharva & Dadra on Tabla.

Books Recommended:

2. Sangeet Shastra Darpan Part – II (Punjabi) published by PunjabiUniversity, Patiala.
4. Sangeet Shastra Darpan Shanti Govardhan.
7. Sangeet Nibandhavli, Dr. Gurnam Singh, published by PunjabiUniversity, Patiala.
8. Sikh Dharam Ate Bhakti Sangeet, Dr. Jitender Kaur.
SEMMESTER–II

MUSIC (INSTRUMENTAL)  
(THEORY)

Theory: 3 Hrs.  
Theory: 3 periods per week

Total Marks: 100  
Theory Marks: 50  
Practical 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. History of Indian music during Vedic Period.
2. Definition and explanation of the following musical terms:–Bols of mizraab, Maseetkhani Gat, Razakhani Gat, Vadi, Samvadi, Purvang and Uttrang.

SECTION–B
3. Classification of Indian Musical Instruments.
4. Life–sketch and contribution of the following musicians: Vidushi Annapurna Devi, Ustad Vilayat Khan.
5. Explain Alap, Jod and Jhalla.

SECTION–C
6. Description of all and Notation of any of the following Ragas: Bhairav, Kafi and Bageshwari.
7. Brief knowledge and notation of the following Talas: Kehrva and Rupak.

SECTION–D
9. Detailed knowledge of the instruments used in Gurmat Sangeet: Rabab, Dilruba and Saranda.

Books Recommended:-
1. Raag Parichay (Part 1,2) by H.C.Shrivastava.
2. Sangeet Shastra Darpan (Part–1,2) by Shanti Gowardhan.
6. Sangeet Subodh by Dr. Davinder Kaur
7. Gurmat Sangeet (Vishesh Ank) Amrit kirtan Trust, Chandigarh.
8. Gurmat Sangeet, Prabandh ate Pasaar, Dr. Gurnam Singh.
SEMESTER–II
MUSIC (INSTRUMENTAL)
(PRACTICAL)

Time: 20 minutes
Practical: 20 Min. for each student

Practical: 9 periods per week

1. Ability to play Ten Alankars of Bhairav Thaat on your Instrument.

2. (i) One Razakhani Gat in each of the following ragas with toras and jhalla:–
   Bhairav, Kafi & Bageshwari
   (ii) Play only gat in other two ragas.

3. One Maseetkhani Gat in any of Ragas prescribed in the course.

4. Ability to recite Kehrva and Rupak Taal by hand in Ekgun and Dugun Layakaries.

5. Ability to play One Dhun based on Folk music of Punjab on any instrument other than Sitar.
SEMMESTER–II

INDIAN CLASSICAL DANCE
(THEORY)

Time: 3 Hrs.          Max. Marks: 100
Teaching 3 periods per week  Theory Marks: 50
Practical 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

2. Essential characteristics of Manipuri Dance.
3. Definition of the following terms: Kavit, Chakardar Paran, Bhaav, Kasak, Masak, Vandana,
   Gat, Laya.

SECTION–B

4. Knowledge of:
   i) Four neck movements
   ii) Eight eye glances.
   iii) Seven eye–brow movements.
   iv) Nine head movements.
5. Study of Asmyukta Mudras based on Abhinaya Darpan and detailed description of any
   fifteen with its uses.

SECTION–C

6. Write an Essay on:
   i) Importance of Tal and Lehra in Kathak Dance.
   ii) Advantages of Dance in Physical fitness.
7. Writing notation of Jhaptal with its:
   (a) Tatkar with its Thaah, Dugan, Tigun and Chaugun Layakaries
   (b) Thaat – 1
   (c) Tehai – 1
   (d) Amad – 1
   (e) Tora – 1
   (f) Paran – 1
   (g) Chakardar Paran – 1
SECTION–D

8. Historical background of the Folk Dances of Rajasthan.
9. Importance of Vocal & Instrumental Music with Dance.
10. Description of following talas with the notation of their Thekas in Thaah, Dugun, Tigun and Chaugun Layakaries.
   a. Jhaptal
   b. Ektal
   c. Dadra

Books Recommended:-

5. Kathak Nritya Shiksha Part-1, Dr. Puru Dadhich, Bindu Prakashan, Ujjain (MP).
SEMESTER–II

INDIAN CLASSICAL DANCE
(PRACTICAL)

Time: 20 Minutes  Marks: 50
Teaching 9 periods per week

Practical Demonstration of the following:

1. Teen Taal its:
   (a) Tatkar in Thaah, Dugun, Tigun and Chaugun Layakaries.
   (b) Thaat – 1
   (c) Tehai – 1
   (d) Amad – 1
   (e) Salami – 1
   (f) Tora – 2
   (g) Paran – 1
   (h) Chakardar Paran – 1
   (i) Kavit – 1

2. Jhaptal:
   (a) Tatkar with its Thaah, Dugun, Tigun and Chaugun Layakaries.
   (b) Thaat – 1
   (c) Tehai – 1
   (d) Amad – 1
   (e) Tora – 1
   (f) Paran – 1
   (g) Chakardar Paran – 1

3. Padhant of whole material by hand in all taals mentioned above.
4. Recognition of the compositions such as Tehai, Layakaries etc. composed by the Examiner.
5. Practice of (Hand movements with Tal).
6. (i) Two Gat Nikas in Taal.
   (ii) One Bhajan
7. Ability to demonstrate Panjabi or Rajasthani Folk Dance
8. Ability to play Nagma on Harmonium in Teentaal & Jhaptaal.
9. Ability to play theka of Dadra Taal on table.

Books Recommended:
SEMMESTER–II

TABLA
(THEORY)

Total Marks: 100

Theory Marks: 50
Practical Marks: 50

Theory: 3 Hours

Theory 3 periods per 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

• Definitions with full explanations of the following:
  Tukda, Vibhag, Mukhra, Mohra, Tipalli, Gat, Paran, Rela.
• Detailed knowledge and Notations of the following Taalas in Dugun, Tigun and Chaugun Laykaris:- Teentaal, Ektal, Chartal

SECTION–B

• The Place of Tabla in Light Music.
• Comparative study of the following Taals :-
  Ektal and Chartal

SECTION–C

• Life & Contribution of the following Musicians in the field of Tabla vadan:–
  Pt. Samta Prasad, Ustad Alla Rakha Khan, Pt. Lakshman Singh Seen.
• Comparative study of Delhi & Ajrara Gharanas of Tabla

SECTION–D

• Role of following Instruments in Rhythm:–
  Dholak, Mridang, Khol.
• Detailed Knowledge of Folk Instruments (Percussion) of Punjab.
Time: 20 Minutes  Marks: 50
Practical: 20 Minutes for each student

Practical: 9 periods per week.

1. Tals Prescribed: Teental, Ektal, Keharwa.
2. Teental – Peshkar, Two Qaidas with Four Paltas each, One Paran, One Gat, One Chakardar Tihaai.
3. Ektal – Two Qaidas with Four Paltas each, Two Tukra, Two Tihais.
4. Kehrwa : Laggis (three), Two Tiharris, Two Mukhra
5. Practice of playing the above Taals with Vocal and Instrumental performance.
6. Ability to play Nagma on Harmonium in Ektal.
7. Tuning of Tabla.
8. Ability to play any folk percussion instrument of Punjab.

Books Recommended:-

B.A./B.Sc. (Semester System) (12+3 System of Education) (Semester–II) (Session 2019-20)

(Faculty of Engineering & Technology)

SEMESTER–II

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)

Practical based on Programming in C

2 Hours/week

Books Suggested:-

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

Marks: 25
SEMESTER–II

INFORMATION TECHNOLOGY (VOCATIONAL)

INTERNET & DATA COMMUNICATION
(THEORY)

Time: 3 Hours 
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

Internet:
Internet Applications, Domain Name System, Electronic Mail the World Wide Web, Multimedia Audio, Video, Data corporate File transfer Protocol, Mail transfer Protocol, Telnet, HTTP.

SECTION–B

Introduction to HTML, HTML and the World Wide Web, HTML elements, basic structure of elements, creating HTML pages, viewing pages in different browsers, rules for nesting the HTML tags, color and fonts, formatting the body section, creating links, creating external links, creating internal links, adding graphics with image elements, image element attributes, using image as links.

SECTION–C

Computer Networks, Network Hardware, Network Categorization–LAN, MAN, WAN, OSI & TCP/IP Reference Models,

SECTION–D

SEMESTER–II

INFORMATION TECHNOLOGY (VOCATIONAL)
(PRACTICAL)

On the basis of Internet & Data Communication Marks: 25

Books Recommended:

SEMESTER–II

COMPUTER MAINTENANCE (VOCATIONAL)

COMPUTER ORGANIZATION AND ASSEMBLING
(THEORY)

Time: 3 Hours

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


SECTION–B


Micro Programmed Control: Control Memory, Addressing Sequence, Micro Program Example, Design of Control UNIT.

SECTION–C

CPU: Stack Organization, Instruction Format, Addressing Modes, Data Transfer and Manipulation, RISC.

I/O Organization: Asynchronous Data Transfer, Modes of Transfer, Priority Interrupt DMA, IOP.

SECTION–D

PC Assembling: Introduction of Motherboards, Power Supply, RAM, Drivers, Keyboard Monitor, Processors and assembling the Computer System.

References:-
SEMESTER–II

COMPUTER MAINTENANCE (VOCATIONAL)

(PRACTICAL)

List of Practicals Based on Computer Organization and Assembling  Marks: 25

1. To study the various I/O devices.
2. To study the power supply system.
3. To study the usage of various tools.
4. To study the techniques of soldering and desoldering.
5. Installation of operating systems and software.
6. PC Assembling & Disassembling.
SEMESTER–II

COMPUTER APPLICATIONS (VOCATIONAL)

PROGRAMMING USING C
(THEORY)

Time: 3 Hrs.                         Max. Marks: 100
4 Hours/week                        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 Candidate:
Attempt five questions in all by selecting one question from each section and the fifth question
may be attempted from any sections.
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, Flow Charts, Problem Analysis, Decision tables, Pseudo codes and
Algorithms.

Programming Using 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.

SECTION–B

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

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

**Arrays:** Types of Arrays, Advantages/Disadvantages of arrays. Insertion, Deletion, Searching and sorting operations on array

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

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

SECTION–D

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

**Pointers:** Introduction, Advantages/Uses of pointers, Limitations of pointers, Difference between void pointer and Null pointer, Pointer arithmetic, operators not allowed on pointers, Types of Pointer, Passing Pointers to function, concept of pointer to pointer.

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

**References:**
3. Let Us C : Yashwant Kanitkar
SEMESTER–II

COMPUTER APPLICATIONS (VOCATIONAL)

PROGRAMMING USING C

(PRACTICAL)

Marks: 25

2 Hours/week
SEMESTER–II

INFORMATION TECHNOLOGY SPECILIZATION SOFTWARE DEVELOPMENT
(VOCATIONAL)

PROGRAMMING (C++)
(THEORY)

Time: 3 Hours
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.

SECTION–A
Object Oriented Programming
Objects & Classes, Constructor & Destructor.

SECTION–B
Operator Overloading.
a) Overloading Unary Operators.
b) Overloading Binary Operators.
c) Data Conversion.
d) Pitfalls Operator Overloading and Conversion.

SECTION–C
Inheritance
a) Derived Class and Base Class.
b) Derived Class Constructors.
c) Overriding Member Functions.
d) Inheritance in the English Distances Class, Class Hierarchies.
e) Public and Private Inheritance.
f) Level of Inheritance.

SECTION–D
Polymorphism
a) Problems with Single Inheritance.
b) Multiple Inheritance.
C++ Programming  

Operational Knowledge of C++ Programming  

Note: Oral and written test will be conducted by External examiner with the help of internal examiner
B.A./B.Sc. (Semester System) (12+3 System of Education) (Semester–II) (Session 2019-20) (Faculty of Engineering & Technology)

SEMESTER–II

AUTOMOBILE MAINTENANCE (VOCATIONAL) (THEORY)

Time: 3 Hours
Periods/week: 6

Theory Marks: 60

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
Automotive Engines, Engine fundamentals; Piston–Engine Operation, Engine Types Engine Constructions, Values and Values Trains Engine Measurements and performance.

SECTION–B
Automotive Engine Systems; Automotive Engine fuels; Automotive fuel exhaust system; Automotive carburetors; Carbureted–Fuel–System service; Diesel Fuel–Injection Systems.

SECTION–C
Operation and service; Engine lubrication System: Operation and service.

SECTION–D
Engine Cooling system; Cooling System Service.

(PRACTICAL)

LAB–II

Time: 3 Hours
Period/week: 6

Marks: 40

Practical:
1. Carburetor dismentling, cleaning and fault diagnosing.
2. Fuel Injection Pump timing with engine.

References:
1. Basic Automobile Engineering Written by CP Nakra (Punjabi Edition) Published by Dhanpat Rai and Sons, Jalandhar, Delhi.
SEMESTER–II

REFRIGERATION & AIR CONDITIONING (VOCATIONAL)
(THEORY)

Time: 3 Hours
Periods/week: 6

Theory Marks: 60

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

SECTION–B

SECTION–C

SECTION–D
Types of air conditioning system Direct Expansion: chilled Water Window cycle, package air conditioning split units & conts of plants.
Components of Air Conditioning: Chillers, coils, blowers, ducts distributor & pumps.

(PRACTICAL: LAB–II)

Time: 3 Hours
Period/week: 6

Marks: 40

List of Experiments:

1. To make different types of joints with help of elbows. T’s socket etc.
2. To study different types of comp. eg open & sealed type.
3. To study different types of condensers eg. Air cooled & Water cooled.
4. To study the various types of expansion devices. Capillary tube Exp. Values. Thermostatic Exp. value.
5. To study pressure & Temperature measuring instruments.

List of Reference Books:
1. Ref & AC S. Domkundwar Dhanpat Rai
2. Ref & AC S.C. Arora —do—
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.

**Punjabi:**

1. अमित, म.म., *यदां दी तौड़ली सत्त्वाकी, धर्मीयकविता विहिने, पंजाबी पूर्तीविमिती, पटिबला*, 1999.
2. मीर, दिविलाल, *एकधी आचरण दी कृपा–देखा, भगवान, पृथक परिवार, अंतरपिर, चंडीगढ़, 2014.
3. गुप्ता, मंजी राघव, अवधी अचारण, पंजाब स्टेट यूनिवर्सिटी, चंडीगढ़, 1974.
4. रितुराज, आवाज़, अधी आचारण, पंजाब स्टेट यूनिवर्सिटी, चंडीगढ़, 1994.
5. जीवत्व, सिद्ध हो, जीवत्व देई पूर्व, बुधारी पूर्तीविमिती, पटिबला
6. जीवत्व, सिद्ध हो, बुधारी पूर्व देई पूर्व, पंजाबी पूर्तीविमिती, पटिबला

**Hindi:**

1. भिमवर्म, उदेलु पृथक, अवधी आचारण दी कृपा–देखा, मेहताली दलवाली स्ट्री, रिली, 1963.
2. भिमवर्म, दिभिम (ज.), अवधी आचारण, यूनिवर्सिटी पुस्तक, गिरी संग्रहालय, उत्तरप्रदेश, 2003.
3. देवान, दिभिम (ज.), अवधी आचारण, यूनिवर्सिटी पुस्तक, गिरी संग्रहालय, उत्तरप्रदेश, रिली, 1973.
SEMESTER–II
PHILOSOPHY
ETHICS: WESTERN AND INDIAN

Time: 3 Hours
Lectures to be delivered: 6 per week
Pass Marks 35 %

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. 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.

SECTION–C


SECTION–D

1. Buddhism: Four Noble Truths and Eight-Fold Path
2. Yoga Philosophy: Ashtangyoga
Recommended Readings:

**English Books:**


**Punjabi Books:**

1. ਜੁੜਾ ਵਿਅੰਤ ਧੂਪਰ, ਪੰਜਾਬੀ ਕਦਰ ਦੀ ਹੋਰ ਸੰਗਤਾ, ਪੰਜਾਬ ਸਕੂਲ ਇੰਟਰਨੈਟ, ਅਗੀਵਲ 2005।
2. ਜੁੜਾ ਵਿਅੰਤ ਧੂਪਰ, ਪੰਜਾਬੀ ਕਦਰ ਦੀ ਹੋਰ ਸੰਗਤਾ, ਪੰਜਾਬ ਸਕੂਲ ਇੰਟਰਨੈਟ, ਅਗੀਵਲ 2005।
3. ਜੁੜਾ ਵਿਅੰਤ ਧੂਪਰ, ਪੰਜਾਬੀ ਕਦਰ ਦੀ ਹੋਰ ਸੰਗਤਾ, ਪੰਜਾਬ ਸਕੂਲ ਇੰਟਰਨੈਟ, ਅਗੀਵਲ 2005।
4. ਜੁੜਾ ਵਿਅੰਤ ਧੂਪਰ, ਪੰਜਾਬੀ ਕਦਰ ਦੀ ਹੋਰ ਸੰਗਤਾ, ਪੰਜਾਬ ਸਕੂਲ ਇੰਟਰਨੈਟ, ਅਗੀਵਲ 2005।
5. ਜੁੜਾ ਵਿਅੰਤ ਧੂਪਰ (ਹੇਡ.), ਪੰਜਾਬੀ ਕਦਰ ਦੀ ਹੋਰ ਸੰਗਤਾ, ਪੰਜਾਬ ਸਕੂਲ ਇੰਟਰਨੈਟ, ਅਗੀਵਲ 2005।

**Hindi Books:**

1. रचना, रेड्डांग्राम, तौरेस गुप्त, भक्त्यमाप्त, अरुणाचल प्रदेश, हिंदी, 1977.
### SEMESTER–II

**ZOOLOGY**

<table>
<thead>
<tr>
<th>Paper</th>
<th>Maximum Marks</th>
<th>Hours of Teaching</th>
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<tr>
<td></td>
<td>Theory Marks</td>
<td>Practical Marks</td>
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<td>Credit Hrs.</td>
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<td>ZOO-IIA</td>
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<td>(Ecology)</td>
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<td>ZOO-IIB</td>
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<td>(Biodiversity-II)</td>
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<td>PRACTICAL–II</td>
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<tr>
<td>(RELATED TO ZOO-IIA and ZOO-IIB)</td>
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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
Ecology: Definition, Subdivisions and scope of ecology.
Ecosystem: Components, ecological energetics, food web, major ecosystems of the world.
Ecological factors: Temperature, light and soil as ecological factors.

SECTION–B
Nutrients: Biogeochemical cycles and concept of limiting factors.
Ecological Adaptations: Morphological, physiological and behavioural adaptations in animals in different habitats.

SECTION–C
Population: Characteristics and regulations of population. Inter and Intra Specific relationship: Competition, Predation, Parasitism, Commensalism and Mutualism.
Biotic community: Characteristics, ecological succession, ecological niche.

SECTION–D
Natural resources: Renewable and nonrenewable natural resources and their conservations.
Environmental Issues: Causes, impact and control of environmental pollution.

Suggested Readings:
SEMESTER–II
ZOLOGY

ZOÓ–II B: BIODIVERSITY–II
(ARTHROPODA TO HEMICHORDATA)
(THEORY)

Max. Time: 3 Hrs. Max 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

Arthropoda: Type study- Prawn
Type study- Periplaneta americana (Cockroach),
Social organizations in insects (Honey bee and Termite)

SECTION–B

Mollusca: Type study- Pila globosa, Torsion, Pearl formation

SECTION–C

Echinodermata: Type study - Asterias (Star fish), Study of Echinoderm larvae

SECTION–D

Hemichordata: Type study - Balanoglossus (External characters only). Affinities of Hemichordates with Non-Chordates and Chordates

Suggested Readings:-
Important Note for Practical:

1. Candidates will be required to submit their original note books containing record of their laboratory work.
2. Wherever possible, students must be taken out for excursion to the field (Zoological gardens, sea shores, ponds and hill stations etc.) to study habitat and ecology of the animals.
3. As per the latest UGC guidelines (D.O.No. F. 14-6/2014(CPP-II) dated 01-08-2014) the dissections should not be conducted. The guidelines on this issue are available on the UGC website: www.ugc.ac.in

1. **Classification up to orders with ecological notes and economic importance (if any) of the following animals:**
   A. **Arthropoda:** Peripatus, Palaemon (prawn), Lobster, Cancer (crab), Sacculina, Eupagurus (hermit Crab), Lepas, Balanus, Cyclops, Daphnia, Lepisma, Periplaneta (cockroach), Schistocerca (locust), Poecilocerus (ak grasshopper), Gryllus (cricket), Mantis (praying mantis), Cicada, Forficula (earwig), Dragonfly, Termite queen, Bug, Moth, Beetles, Polistes, Watts, Apis (honey bee), Bombyx, Pediculus (body louse) Millipede and Centipede, Palamnaeus (scorpion), Aranea (spider) and Limulus (king Crab).
   B. **Mollusca:** Anodonta, Mytilus, Ostrea, Cardium, Pholas, Solen (razor fish), Pecten, Haliotis, Patella, Aplysia, Doris, Limax, Loligo, Sepia, Octopus, Nautilus shell (Complete and T.S.), Chiton, Dentalium.
   C. **Echinodermata:** Asterias, Echinus Ophiothrix, Antedon.
   D. **Hemichordata:** Balanoglossus.

2. **Study of the following permanent stained preparations:**
   A. Trachea and mouth parts of Insects
   B. Radula and osphradium of *Pila*
   C. T.S. Star fish (Arm).

3. **Demonstration of** digestive and nervous systems of Periplaneta (cockroach) with the help of charts/models/videos.

4. **Ecology:**
   A. Study of animal adaptations with the help of specimens, charts and models.
   B. Study of abiotic and biotic components of an ecosystem.
   C. Study of different types of nests of birds.
   D. Study and preparation of Zoogeographical charts.
5. Assignment

Note:- Some changes can be made in the practicals depending on the availability of material.

Guidelines for conduct of practical Examination:-

1. Identify and classify the specimens upto order. Write a note on their habit, habitat, special features and economic importance.  
2. Draw a well labelled sketch of the given system of the animal & explain it to the examiner.  
3. Identify the slides/models and give two reasons for identification.  
4. Identify the adaptive feature/nest.  
5. Mark the distribution of animals of a realm on the map.  
6. Assignment  
SEMESTER–II

MICROBIOLOGY
BASIC FOOD MICROBIOLOGY
(THEORY)

Time: 3hrs Max. Marks: 75

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. Food as a substrate for microorganisms, intrinsic and extrinsic factors affecting the growth of various microorganisms in foods. Microorganisms important in food microbiology—bacteria, yeasts and molds, sources of contamination in foods.

SECTION–B

SECTION–C
3. Principles of food preservation and spoilage, asepsis, anaerobic conditions, aseptic packaging, preservation methods, high temperature, low temperature, drying, chemical preservatives.

SECTION–D
4. Spoilage of various milk and milk products, cereal and cereal products, vegetable and fruits, meat and meat products, canned foods. Food poisoning and food infection. Staphylococcal, Clostridium and Salmonella intoxications.

Books Recommended:-
1. To enumerate the total microbial cells in a suspension by serial dilution and pour plating.
2. To enumerate the total bacteria in milk by direct microscopic count.
3. To measure the size of microbial cells by ocular micrometer.
4. To study the morphology of bacteria, yeasts and molds.
5. To check the bacteriological quality of raw milk by methylene blue reduction test.
SEMMESTER–II

INDUSTRIAL MICROBIOLOGY (VOCATIONAL)
INTRODUCTION TO FOOD MICROBIOLOGY
(THEORY)

Time: 3hrs

Max. Marks: 75

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. Food as a substrate for microorganisms, intrinsic and extrinsic factors affecting the growth of various microorganisms in foods.

SECTION–B

2. Microorganisms important in food microbiology: bacteria, yeast and molds, sources of contamination in foods.

SECTION–C

4. Principles of food preservation and spoilage, asepsis, anaerobic conditions, aseptic packaging, preservation methods, high temperature, low temperature, drying, irradiation and chemical preservatives.

SECTION–D

5. Spoilage of various milk and milk products, cereal and cereal products, vegetable and fruits, eggs, canned foods and meat and meat products.
6. Food poisoning and food infection. Staphylococal Chlostridium and Salmonella intoxication.

Books Recommended:-

1. To study the practical growth curve of bacteria
2. To enumerate the total microbial cells in a suspension by the serial dilution and pour plating.
3. To enumerate the total bacteria in milk by direct microscopic count.
4. To measure the size of microbial cell by ocular micrometer.
5. To study the morphology of bacteria, yeast and molds.
6. To check the bacteriological quality of raw milk of methylene blue the reduction test.
SEMINAR-II

MICROBIAL & FOOD TECHNOLOGY
FUNDAMENTALS OF FOOD PROCESSING AND TECHNOLOGY
(THEORY)

Time: 3 Hrs. Max. Marks: 75

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
Cereal & Cereal Products: Structure and composition of wheat and rice, milling of wheat, shelling and polishing rice, Preparation of bread by straight dough, sponge dough & continuous methods.
Oil & Fats Technology: Rendering Pressing, Solvent extraction, refining & hydrogenation.

SECTION–B

SECTION–C
Fruit & Vegetable Technology: Canning, Preparation of vinegar, Jam, Jellies & Pickles.

SECTION–D
Food Packaging Technology: Types of containers, (Primary, Secondary & Tertiary) Form–fill–seal packaging, Aseptic packaging Food packaging materials & forms glass containers, laminates, metal cans & Retortable pouches.

Books:
SEMESTER–II

MICROBIAL & FOOD TECHNOLOGY

(PRACTICAL)

Time: 4 Hours

Marks: 25

1. To enumerate the total number of bacteria by direct microscopic count.
2. To measure the size of microbial cell by ocular micrometer.
3. To study the morphology of bacteria, yeast and molds.
4. To check the bacteriological quality of raw milk of methylene the reduction test.
5. To study the typical growth curve of Bacteria.
SEMESTER–II

BOTANY

PAPER–II A: CELL BIOLOGY
(THEORY)

Time: 3 Hrs.                     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

Structure and Function of Nucleus: Ultrastructure; nuclear membrane; nucleolus.

SECTION–B

Extra nuclear Genome: Presence and function of mitochondrial and plastid DNA; plasmids. structure and function of other organelles: Golgi bodies, ER, Peroxisomes, Vacuoles

SECTION–C

Chromosome Organization: Morphology; centromere and telomere; chromosome alterations; deletions, duplications, translocations, inversions; variations in chromosome number, Aneuploidy, polyploidy; sex chromosomes.

SECTION–D

The Cell Envelopes: Plasma membrane; bilayer lipid structure; functions; the cell wall.

Suggested Readings:-
SEMESTER–II

BOTANY

PAPER–II B: GENETICS
(THEORY)

Time: 3 Hrs. \hspace{1cm} 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
DNA the Genetic Material: DNA structure; replication; DNA–protein interaction; the nucleosome model; genetic code; satellite and repetitive DNA.

SECTION–B
Cell Division: Mitosis; meiosis. Genetic Inheritance: Mendelism; laws of segregation and independent assortment; linkage analysis; allelic and non–allelic interactions.

SECTION–C
Gene expression: Structure of gene; transfer of genetic information; transcription, translation, protein synthesis, tRNA; ribosomes; regulation of gene expression in prokaryotes and eukaryotes; proteins, 1D, 2D, and 3D structure.

SECTION–D
Genetic Variations: Mutations, spontaneous and induced; transposable genetic elements; DNA, damage and repair.

Suggested Readings:
Suggested Laboratory Exercises

1. Teachers may select plants/material available in their locality/institutions.
2. To study cell structure from onion leaf peels; demonstration of staining and mounting methods.
4. Study of plastids to examine pigment distribution in plants (e.g. Cassia, Lycopersicon and Capsicum). 4. Examination of electron micrographs of eukaryotic cells with special reference to organelles.
5. Study of electron micrographs of viruses, bacteria, cyanobacteria and eukaryotic cells for comparative cellular organization.
6. Examination of various stages of mitosis and meiosis using appropriate plant material (e.g. onion root tips, onion flower buds).
7. Preparation of karyotypes from dividing root tip cells and pollen grains.
8. Cytological examination of special types of chromosomes: bar body, lampbrush and polytene chromosomes.
9. Working out the laws of inheritance using seed mixtures.
10. Working out the mode of inheritance of linked genes from test cross and/or F2 data.

Suggested Readings:-

SEMMESTER–II

BIOINFORMATICS (VOCATIONAL)
BASIC MATHEMATICS, BIOSTATISTICS & DATABASE MANAGEMENT SYSTEMS
(THEORY)

Time: 3 Hrs. Max. Marks: 100
Credit Hours: 6 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

Matrices and Vectors: Matrix Algebra, -Addition, Subtraction, Multiplication, Transpose inverse and conjugate of a Matrix. Determinants (upto third order), Vectors in space, Addition, Subtraction Dot, Cross and Scalar triple product.

Functions: Concept of functions, its domain and range, only graphs of some well known functions such as linear, exponential, sine and cos.

Coordinate Geometry: Equation of a line, circle.

Differentiation: Limits of functions, Complete Differentials (Simple examples), Partial differentials of functions with one variable.

Integration: Indefinite (Simple examples) and Introduction to Definite Integral.


SECTION–B

Elementary Statistics: The mean, median, mode, standard deviation, variance, covariance of data.

Probability: Basic concepts, sample space and events, use of counting method in probability, addition law, sample problems involving the estimation of probabilities, Conditional Probability and Independent Events, Bayes theorem.

Introduction to Correlation & Regression: Scatter diagram, Linear correlation, linear regression lines.

Probability Distributions: Bernoulli, Binomial, Poisson and Normal Distributions.
SECTION–C

**Introduction to DBMS:** Data, Information, Knowledge, Database approach, Characteristics of Database approach, Database System Concept, Components of Database System, DBMS, Database languages, DBMS Architecture and data Independence.

**Data Models:** ER Model Concepts, Notation for ER Diagram, Relational Model Concepts, relational Model Constraints. Normalization and is forms like 1NF, 2NF, 3NF, BCNF, 4NF and 5NF. Functional Dependencies.

SECTION–D

**SQL:** Introduction, DDL statements, DML statements, TCL statements. Queries in SQL: Nested Queries, Single row sub queries, multiple row sub queries, Multiple Column sub queries, views in SQL.

**Introduction to PL/SQL:** Basic Elements of PL/SQL, Procedures: Local and stored procedures, Functions: Local functions, Return statement and stored functions. Difference b/w procedures and functions.

**Recommended Books:**
13. Data Mining Concepts and Techniques-Jiawei Han, Micheline Kamber, *Morgan Kaufmann Publisher, 2001.*
SEMMETER-II

BIOINFORMATICS (VOCATIONAL)

PAPER-B: LAB IN DATABASE MANAGEMENT SYSTEMS
(PRACTICAL)

Time: 3 Hrs  Marks: 25
Credit Hours: 4½

Exercise to understand RDBMS: Oracle, SQL etc.
  Usage of important Commands/instructions
   DDL statements
   DML statements
   TCL statements
   Queries in SQL
   Operators
   Functions
   Views

Basic elements of PL/SQL
   Procedures
   Functions
SEMESTER–II

BIOTECHNOLOGY (VOCATIONAL)

GENETICS AND BIOCHEMISTRY
(THEORY)

Time: 3 Hrs. 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

Mendelian laws of inheritance; gene interactions. Sex determination in plants and animals, sex-linkage, non-disjunction as a proof of chromosomal theory of inheritance. Linkage; mapping genes; Chromosomes: chemical composition; structural organization of chromatids, centromeres, telomeres, chromatin, nucleosome organisation; eu- and heterochromatin; special chromosomes (e.g., polytene and lampbrush chromosomes; banding patterns in human chromosomes.

SECTION–B

SECTION–C

Nature of biological material; Suitability of organic compounds for generation of structure, storage of energy and information; Hydrophilic and hydrophobic groups in biological molecules.

i) Carbohydrates, peptidoglycans, polysaccharides and membrane lipids.

ii) The signal molecules: Hormones.

The repeating UNITS in nucleic acids and conformation of DNA (A, B & Z). Proteins, Helicity, bending, looping, pleats, salt bridges etc. and their determinants.

SECTION–D

The basis for intermolecular interaction e.g. enzyme-substrate. Protein and nonprotein enzymes. Kinetics of enzyme catalysed reactions (first order), Enzyme inhibition. Enzymes and their applications in industry. Enzymes in food processing, medicine, diagnostics and production of new compounds. Enzymes as research tools-ELISA methods, modifications of biological compounds with the help of enzymes.

Books Recommended:
SEMESTER II
BIOTECHNOLOGY (VOCATIONAL)
(PRACTICAL)

Time: 3 Hours  Marks: 25
Credit Hours: 6

I- BIOCHEMICAL TECHNIQUES:
Verification of Beer Lamberts for P-nitrophenol or cobalt chloride.
Determination of pKa value of p-nitrophenol
Quantitative estimation of the following in biological samples
Sugar in given solutions and biological samples
Extractions and separation of lipids
The determination of acid value of a fat
Estimation of proteins
Estimation of DNA/RNA

II- GENETICS
Demonstration of Law of Segregation (use of coloured beads, capsules etc.).
Demonstration of Law of Independent Assortment (use of coloured beads, capsules etc.).
Numerical problems based on Paternity Disputes (Blood groups)
Preparation of slide of Barr Body.
Preparation and study of mitosis slides from onion root tips by squash method.
Dermatographics: Palm print taking and finger tip patterns.
Study of inheritance of Human Phenotypic Traits (ability to taste PTC/Thiourea, rolling of tongue etc.)
PHILOSOPHICAL FOUNDATIONS OF EDUCATION

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.

Note: The paper setter may set each question in 2/4 parts to ensure maximum representation of the syllabus.

SECTION–A
1. Philosophy of Education- Definition, nature and scope
2. Difference between philosophy of education & educational philosophy

SECTION–B
1. Relationship between Philosophy & Education.
2. Impact of Philosophy on different aspects of Education.

SECTION–C
1. Idealism –its main features & contribution to Education
2. Naturalism – its main features & contribution to Education

SECTION–D
1. Pragmatism–its main features & contribution to Education
2. Meaning & importance of values; ways & means for inculcation of values.

Books Recommended:-
SEMESTER–II

HUMAN RIGHTS

OUR DUTIES IN RELATION TO SOCIETY

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.

Note: The paper setter may set each question in 2/4 parts to ensure maximum representation of the syllabus.

SECTION–A
Identification of human duties in relation to society.

SECTION–B
Duties towards self; family; neighborhood; environment and society at large.

SECTION–C
Conflicts in duty performance at individual level, socio cultural level; causes of these conflicts.

SECTION–D
Suggestions for resolving conflicts and better duty performance at different levels-individual, organization work place, socio cultural level.

Recommended Books:-

SEMESTER–II
DAIRY FARMING (VOCATIONAL)
(THEORY)

Max. Marks: 100
Theory Marks: 50
Practical 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

Anatomy and Physiology
Anatomy & Physiology of udder. Milk synthesis and its secretion including let down of milk. Digestive and reproductive system of cattle

SECTION–B

Feeding Practices

SECTION–C

Management
1) General care of cattle, grooming, exercise, bathing, oestrus observation, care during pregnancy, parturition, milking, clean milk production, drying off.
2) Care of calves: Care and feeding of weaned calves, Identification marks (tattooing, branding and ear tagging) disbudding and castration etc.
3) Principles of grading up in cattles. Various systems of breeding i.e. inbreeding, out breeding and crossbreeding. Importance of Sire & Dam.
4) Artificial insemination, Merits and Demerits thereof.

SECTION–D

Diseases and their Control
Common infections and contagious diseases, their causes, symptoms and treatment. Vaccination schedule. Deworming and tick control.
SEMMESTER–II

DAIRY FARMING (VOCATIONAL)
(PRACTICAL)

Time: 3 Hours

Marks: 50

1. Identification of various feed stuffs.
2. Identification and numbering of animals:
   a) Tattooing,  b) Notching,  c) Branding,  d) Eartagging
3. Disbudding: Caustic touch, Hot iron method, Electric dehorner.
4. Collection of semen, its evaluation and extension (Demonstration only)
5. Techniques of artificial insemination (Demonstration only).
SEMESTER–II

RSL121: RUSSIAN

PAPER–I (APPLIED GRAMMAR)

Time allowed: 3 Hrs.  M. M.: 40

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. Grammar (all topics covered in the text book)

SECTION–B

2. Comprehension (unseen text with questions)

SECTION–C

3. Questions based on the texts covered in the textbook.

SECTION–D

4. Informal letter on the given situation.
SEMESTER–II

RUSSIAN

PAPER–II (TRANSLATION & COMPOSITION)

Time allowed: 3 Hrs. M. M.: 40

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. Translation from English into Russian (simple text not exceeding 150 words)

SECTION–B

2. Translation from Russian into English/Hindi/Punjabi (simple text not exceeding 250 words)

SECTION–C

3. Paragraph of not less than 150 words. (One out of three topics)
   Topics: My country, A Dream, Summer Vacations, My Birthday, The Indian Festivals.

SECTION–D

SEMESTER–II

RUSSIAN

PAPER–III (ORAL)

Time allowed: 3 Hrs. M. M.: 20

- Reading of a text 05
- Dictation 05
- Conversation 05
- Oral comprehension 05

Prescribed Textbook: Russian By Wagner & Ovsienko. (Lessons 13-25)

Supplementary Reading:

Note: Glossary of difficult words to be given for translation purpose in the question paper.
SEMESTER–II

FRL–121

FRENCH

PAPER–I (COMPREHENSION & COMPOSITION)

Time allowed: 3 Hrs. M.M.: 40

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. Questions of general comprehension related to the text.
   e.g.:– Qu’est- ce que vous ferez si vous allez en France ?

SECTION–B

2. Questions on comprehension of an unseen passage.

SECTION–C

3. Composition of a small paragraph on general topics pertaining to the text. e. g.: Ma maison, Mon professeur, Ma famille, Une ville touristique, Un pique-nique.

SECTION–D

4. Make a dialogue on any given situation.
SEMESTER–II

FRENCH

PAPER–II (TRANSLATION & GRAMMAR)

Time allowed: 3 Hrs. M.M.: 40

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. Translation of a simple unseen passage or short sentences from English into French.

SECTION–B

2. Translation of a simple unseen passage or short sentences from French into English.

SECTION–C


SECTION–D

4. Questions on applied grammar pertaining to the text-book.

NOTE: Glossary of difficult words may be given for translation purpose in the question paper.
SEMESTER–II

FRENCH

PAPER–III (ORAL)

Time allowed: 3 Hrs.                  M.M.: 20
- Reading of a text                05
- Dictation                        05
- Simple conversation             05
- Oral Comprehension              05

Prescribed Textbook:
“CONNEXIONS-1” by Regine Merieux & Yves Loiseau, Published by Didier (7-12 UNITS)

Supplementary Reading:
Nouveau Sans Frontières 1 by Philippe Dominique & Jacky Girardet
URL102: Essay, Composition, Media and Information

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.

Courses of Study

SECTION–A
Essay

SECTION–B
Letter/application

SECTION–C
Opposite words, Numbers, Genders and Idioms

SECTION–D
News paper, Journals, Radio and TV

Books Recommended:-
1. Guldasta-e-Mazamin-o-Insha Pardazi, Part-II by Dr. Aarif Mohammad Khan, Published by M/S Educational Book House, A.M.U. Market, Aligarh
2. Akhbar Ki Kahani by Ghulam Haider, Taraqqi Urdu Board, New Delhi
3. Rehbar-e-Akhbar Navisi by Syed Iqbal Qadri, Taraqqi Urdu Board, New Delhi
5. Television Ki Sahafat by Shakil Hasan Shamsi, Educational Book House, AMU Market, Aligarh
6. Television Nashariyat by Anjum Usmani, Educational Book House, AMU Market, Aligarh
SEMESTER–II
PERSIAN

PRL102: COMPOSITION AND GRAMMAR

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.

Courses of Reading

Book Prescribed:
1. Farsi-o-Dastur, Zohra Khanlari, Edara Adabyat, Sadar Bazaar Delhi,110006, (Pages: 18, 32, 33, 43, 44, 52, 54, 63, 64, 75, 76, 91, 92, 101,102, 111,112,120 &121.)

SECTION–A
Composition
Short Essay (Ten to twenty sentences in Persian)

SECTION–B
Translation of unseen passage or sentences in Urdu/English/Hindi/Punjabi

SECTION–C
Translation of simple Sentences into Persian

SECTION–D

Grammar: Definitions, kind and examples:
Nihad-o-Guzare, Fail-o-Zamane Fail (Mazi, Haal, Mustaqbal & Muzare) Shakh (Avval, Dom & Som), Shakh (Mufarrad and Jama), Fa’il, Ism aur uski Iqsaam, Tadad, Zamir
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.

1. Advertisement
2. Article
3. Adaptation
4. Acknowledgement of source
5. Art Editor
6. Audience
7. All India Radio
8. Agricultural News
9. Announcer
10. Banner
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<td>Brochure</td>
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<td>Canons of journalism</td>
<td>पत्रकारिता के नीति सिद्धांत</td>
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<td>Caption</td>
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<td>Cartoons</td>
<td>व्यंग्य-चित्र</td>
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<td>Circulation</td>
<td>प्रसार – संख्या</td>
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<td>Classifieds</td>
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<td>Compositor</td>
<td>अक्षर – योजक</td>
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<td>Correspondent</td>
<td>संवाददाता</td>
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<td>Cub reporter</td>
<td>नौसिखिया पत्रकार</td>
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<td>Columnist</td>
<td>स्तम्भकार</td>
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<td>Communication</td>
<td>संचार</td>
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<td>संचार-उपग्रह</td>
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<td>दैनिक</td>
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<td>Defamation</td>
<td>मानहानि</td>
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<td>32.</td>
<td>Development Journalism</td>
<td>विकास पत्रकारिता</td>
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<td>Editor</td>
<td>सम्पादक</td>
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<td>Exclusive</td>
<td>विशिष्ट समाचार</td>
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<td>36.</td>
<td>Feature</td>
<td>रूपलेख फीचर</td>
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<td>37.</td>
<td>Feedback</td>
<td>प्रतिपुस्ति</td>
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<td>Fortnightly</td>
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<td>छदम लेखक</td>
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<td>Hoarding</td>
<td>प्रचार पतल</td>
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<td>Human Interest feature</td>
<td>मनोरोचक फीचर , मर्मस्पर्शी रूपलेख</td>
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<td>45.</td>
<td>House Journal</td>
<td>संस्था- पत्र</td>
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<td>46.</td>
<td>Interview</td>
<td>साक्षात्कार</td>
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<td>Innovation</td>
<td>नवाचार</td>
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<td>Jacket</td>
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<td>Layout</td>
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<td>Letter spacing</td>
<td>अक्षर अंतराल</td>
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<td>51.</td>
<td>Live broadcast</td>
<td>सीधा प्रसारण</td>
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<td>52.</td>
<td>Local News</td>
<td>स्थानीय समाचार</td>
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<td>53.</td>
<td>Make up</td>
<td>पृष्ठ - सज्जा</td>
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<td>54.</td>
<td>Mass communication</td>
<td>जन – संचार</td>
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<td>Monthly magazine</td>
<td>मासिक पत्रिका</td>
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<td>56.</td>
<td>News analysis</td>
<td>समाचार विश्लेषण</td>
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<td>Out of print</td>
<td>अप्राप्य</td>
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<td>Periodical</td>
<td>नियतकालिक पत्रिका</td>
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<td>Press release</td>
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<td>त्रैमासिक</td>
</tr>
<tr>
<td>63.</td>
<td>Screenplay</td>
<td>पटकथा</td>
</tr>
<tr>
<td>64.</td>
<td>Sting operation</td>
<td>भंडाफोड़ पत्रकारिता</td>
</tr>
<tr>
<td>65.</td>
<td>Spot commercial</td>
<td>अंतराल विज्ञापन</td>
</tr>
<tr>
<td>66.</td>
<td>Sponsored programme</td>
<td>प्रायोजित कार्यक्रम</td>
</tr>
<tr>
<td>67.</td>
<td>Subscriber</td>
<td>ग्राहक</td>
</tr>
<tr>
<td>68.</td>
<td>Tabloid Newspaper</td>
<td>छोटा समाचार पत्र</td>
</tr>
<tr>
<td>69.</td>
<td>Wrong font</td>
<td>विज्ञातीय टाइप</td>
</tr>
<tr>
<td>70.</td>
<td>Working journalist</td>
<td>श्रमजीवी पत्रकार</td>
</tr>
</tbody>
</table>
SEMESTER-II
Functional Hindi (Vocational)

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.

1. हिन्दी साहित्य का इतिहास, गुरु नानक देव विश्वविद्यालय अमृतसर।
2. प्रयोजनमूलक व्यवहारिक हिन्दी, डॉ. अम प्रकाश सिंह, जगतराम प्रकाशन, दिल्ली।
3. प्रयोजनमूलक हिन्दी संस्कृति एवं अनुप्रयोग, डॉ. राम प्रकाश, डॉ. नितेन्द्र गुप्त, राजाकृष्ण प्रकाशन, दिल्ली।
SEMESTER-II
Functional Hindi (Vocational)

विद्यार्थियों को प्रति समस्त 40 अंक की प्रयोग पुस्तिका तैयार करनी होगी। जिसमें 20 अंक मौखिक परीक्षा के और 20 अंक प्रयोग-पुस्तिका के होंगे।

प्रयोग-पुस्तिका का आकलन और मौखिक-परीक्षा गुरु नानक देव विश्वविद्यालय द्वारा निर्धारित परीक्षा-नियमों के अनुसार की जाएगी।

• प्रशासनिक पत्रों के प्रारूप तैयार करने का अभ्यास।
• व्यावसायिक पत्रों के प्रारूप तैयार करने का अभ्यास।
• कार्यालयी पत्रों का प्रारूप तैयार करने का अभ्यास।
• सरकारी व अर्थ-सरकारी पत्रों में से किसी एक पत्र के नमूने का टंकन करना।
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.

- संचार : अर्थ व परिभाषा
- संचार : प्रक्रिया के प्रमुख तत्त्व
- संचार की विशेषताएं
- संचार के प्रकार और क्षेत्र

- समाचार
- परिचयवाद
- स्थानीय लेख
- समीक्षा
- फोटो तत्त्व
- सृजनात्मक लेखन

- जनसंचार – सामान्य परिचय, अर्थ व परिभाषा
- जनसंचार – विशेषताएं
- जनसंचार – प्रकार/माध्यम : सामान्य परिचय
- समाचार
- आकाशवाणी
- सुरुवात और सिनेमा
Semester – II
Hindi Patrakarita (Vocational)

विद्यार्थियों को प्रति समस्त 40 अंक की प्रयोग पुस्तिका तैयार करनी होगी। जिसमें 20 अंक मौखिक परीक्षा के और 20 अंक प्रयोग--पुस्तिका के होगे।

प्रयोग--पुस्तिका का आकलन और मौखिक--परीक्षा गुरू नानक देव विश्वविद्यालय द्वारा निर्धारित परीक्षा--नियमों के अनुसार की जाएगी।

- महाविद्यालयों के विभिन्न कार्यक्रमों की रिपोर्ट तैयार करने का अभ्यास।
- आकाशवाणी/दूरदर्शन के कार्यक्रमों का आलेख तैयार करना।
- समाचार लिखते समय किन--किन आवश्यक बातों का ध्यान रखना चाहिए।
- संचार के विभिन्न प्रकारों/रूपों की पायर--पाइंट प्रस्तुति।
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

नीतिशतकम् के 1 से 25 पद्यों की साप्रसंग व्याख्या।
विद्यामहत्त्व, धन का महत्त्व, मूर्ख पद्धति, विद्वा पद्धति, कवि परिचय, सत्संगति,
सार से सम्भवित प्रश्न।

SECTION–B

नीतिशतकम् के 26 से 50 पद्यों की साप्रसंग व्याख्या।
नीतिशतकम् की 1 से 50 पद्यों में से प्रसिद्ध सूक्तियों की साप्रसंग व्याख्या।

SECTION–C

शब्द रूपः राम, हरि, फल, देव, पितृ, पुरात्न, साधु, लता, रमा, मातृ, नदी, गुरु तथा —
एक, द्वि, त्रि, चतुरः शब्दों के पुलिंग में रूप।
कारकों का संस्कृत वाक्यों में प्रयोग —
भि, परि-, संव्य-, अल्म-, सह-, सार्थ-, वाक्य-, समम-, समय-, निकष-, अन्तर-, अन्तर्ण-,
विक्-नमः — इनका प्रयोग करके संस्कृत में वाक्य बनाना।

SECTION–D

कृदन्त प्रत्ययः भू, पद्म, हस, लिख, वद, गम्य, पति, दृश, सू, पच्च, चा, चाक, श्रू कृ धातुओं के
साथ कत, क्तवतु, क्ता, तुमु, तत्वः तथा अनेक प्रत्ययों का प्रयोग।
हिन्दी से संस्कृत में अनुवाद।
पाठ्यक्रम के A, B, C, D 4 सेमेस्टर हैं। अतः प्रश्न पत्र के भी A, B, C, D 4 सेमेस्टर बनायें जायेंगे तथा उन में 8 प्रश्न (पाठ्यक्रम के सेमेस्टर A से 2, B से 2, C से 2, D से 2) दिये जायेंगे। यदि आवश्यकता हो तो किसी भी प्रश्न के क,ख,ग,घ भाग बनाये जा सकते हैं, परन्तु सभी प्रश्नों के अंक समान हों।

SECTION–A

Question–I  नीतिशालकम के 1–25 शब्दों में से 4 पद्धतियों की प्रसंग सहित व्याख्या = 20 अंक
Question–II क. नीतिशालकम के प्रश्नों के लिए निर्धारित बिन्दुओं में से एक प्रश्न = 10 अंक
ख. नीतिशालकम के प्रश्नों के लिए निर्धारित बिन्दुओं में से एक प्रश्न = 10 अंक

SECTION–B

Question–III  नीतिशालकम के 26–50 शब्दों में से 4 पद्धतियों की प्रसंग सहित व्याख्या = 20 अंक
Question–IV  नीतिशालकम निर्धारित में से 4 सूक्तियों की सप्रसंग सहित व्याख्या = 20 अंक

SECTION–C

Question–V  निर्धारित में से 4 शब्दों के रूप लिखवाएं = 20 अंक
Question–VI क. निर्धारित अभिभा: परिल: आदि 7 देखकर इन के योग में विभक्ति पूर्ण = 10 अंक
ख. निर्धारित अभिभा: परिल: आदि 5 देखकर इन के प्रयोग से संस्कृत वाक्य बनवाएं = 10 अंक

SECTION–D

Question–VII  निर्धारित धातुओं में से 10 के साथ निर्धारित में से प्रत्यय देकर कृदन्त रूप लिखवाएं। = 20 अंक
Question–VIII  10 सरल हिंदी वाक्यों का संस्कृत में अनुवाद = 20 अंक
SEMESTER–II

FUNCTIONAL SANSKRIT (VOCATIONAL)

Time: 3 Hours
Prasun patra hindii mein hogaa.

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

In binduona se samvichita vistarut adhyayan:
Nitvam vishik vishyan
Samana dyapavaja vishya
Poodaksharamvishya

SECTION–B

In binduona se samvichita vistarut adhyayan:
Poodak sanskar
Varatram vyashta

SECTION–C

In binduona se samvichita vistarut adhyayan:
Garman sanskar
Puswvan sanskar
Vivah sanskar

SECTION–D

In binduona se samvichita vistarut adhyayan:
Vishigantdepawaja vishya
Pachyaksharam vishya
Sanskarai kaa uddeepesh etvam pryojana
पाठ्यक्रम के A, B, C, D 4 सेक्शन हैं। अतः प्रश्न पत्र के भी A, B, C, D 4 सेक्शन बनायें जायेंगे तथा उन में 8 प्रश्न (पाठ्यक्रम के सेक्शन A से 2, B से 2, C से 2, D से 2) दिए जायेंगे। यदि आवश्यकता हो तो किसी भी प्रश्न के क,ख,ग,घ भाग बनायें जा सकते हैं, परन्तु सभी प्रश्नों के अंक समान हों।

SECTION–A

Question–I प्रश्न = 16 अंक
Question–II प्रश्न = 16 अंक

SECTION–B

Question–III प्रश्न = 16 अंक
Question–IV प्रश्न = 16 अंक

SECTION–C

Question–V प्रश्न = 16 अंक
Question–VI प्रश्न = 16 अंक

SECTION–D

Question–VII प्रश्न = 16 अंक
Question–VIII प्रश्न = 16 अंक
SEMESTER–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
B.A./B.Sc. (Semester System) (12+3 System of Education) (Semester–II) (Session 2019-20)
(Faculty of Languages)

SEMESTER–II
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
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)
B.A./B.Sc. (Semester System) (12+3 System of Education) (Semester–II) (Session 2019-20)  
(Faculty of Languages)

SEMESTER–II

FUNCTIONAL ENGLISH (VOCATIONAL)

REMEDIAL GRAMMAR

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:
2. Grammar and Composition for Communication by S.M. Gupta & Alpana Gupta; Orient Blackswan
3. Remedial Grammar for Foreign Students, by F T. Wood; Macmillan

Course Contents:

SECTION–A

Nouns: Singular & Plural; Articles: Definite/Indefinite; Verbs: Intransitive/transitive verbs; regular/irregular verbs; Auxiliary Verbs, Tenses and their uses, Pronouns, Gerunds and participle confusion

SECTION–B

Prepositions, Adjectives, Adverbs, Adjective–Adverb confusion, Difficulties with comparatives and superlatives, Errors of concord

SECTION–C

Types of Sentences: Declarative, Interrogative, Imperative; Negative & affirmative Passive/Active Voice Direct–Indirect speech, Use of Question Tags, Use of Who–whom, much–many, still–yet, so that, so as, make and do etc.

SECTION–D

Use of individual words, Use of courtesy words for introduction, complaints, refusals, requests, greetings, Beyond Sentence: Connecting sentences Coordination and subordination Cohesion: Reference, ellipsis, substitution, repetition, Use of Conjunctions to develop texts
SEMESTER-II
Punjabi (Compulsory)

भाषा (खर्च) अथवा वाणिज्यशास्त्र रजती उपशास्त्र

1. पुस्तक प्यूर्त दे चाव ज्ञान उदाहरण। उत ज्ञान द्विचे दे पुस्तक पुंडे सादहो।
2. हिरिंगाटरणी हे वूँड पुंड पुस्तक चाले उठे। उत ज्ञान द्विचे टिक पुस्तक सादही ते।
3. वौट पुस्तक दे विषय भेंट उठे।
4. फेंड मैंट चाल सैल सेवत चार्जे उं पुस्तक ची देंड भेंटी ह्यं उं ह्यं चाल एच-पुस्तक हिः वत सवट हे।

प्रमाण भे प्रमाणवर्ग

मैथम - धे

(जी) ज्ञान (चावडी ज्ञान) (मेम. उदित इंशन हिंदी अथवा पीवर्म इंशन मात्रमीरा), चाव तालब देव पुस्तिकाविंशसी. अभिव्यक्त।
(दिवार-दर्मावर्ग/सेवयत दे नीति उं उठल)

मैथम - धी

मैथम दीर्घ पुस्तिका उपशास्त्र (दीर्घी तं: 10 उं 18 उठल)
(मेम. पिं. वेस इंशन. चावउल इंशन मात्र),
पण्डीत मितार धृतारश, अभिप्रयक्त।
(दिवार/अवरोद्ध विषय)

मैथम - मी

(घ) प्रत्यय-पार्श्व भे प्रत्यय-उच्चरण : पार्श्वगत, प्रत्यय मंचम।
(अ) प्रत्यय मंचमीरा

मैथम - धी

(घ) चहड़वी हिंदी प्यूर्त
(अ) भुजावे भे अभाष
B.A./B.Sc. (Semester System) (12+3 System of Education) (Semester–II) (Session 2019-20)  
(Faculty of Languages)

SEMESTER–II

Punjabi (Elective)  
भौषण (पिक्चर्टिंग)

बौध–सौध अध्याय पाठ मैं न लिखित हैं

1. भौतिक पृष्ठ देखकर बात बोलो। उस भौतिक पृष्ठ के पृष्ठ पृष्ठ सादो।
2. हिंदीभाषाई हैं बौध पृष्ठ भौतिक पृष्ठ बनाए रखें। उस भौतिक पृष्ठ के पृष्ठ पर है।  
पृष्ठ भौतिक दिनें कि बात बोलो। बात बोलो।
3. उसे भौतिक पृष्ठ के बजाय अध्याय करो।
4. पृष्ठ मैंने वात बोलने से मज़बूत रहे उन भौतिक पृष्ठ पृष्ठ मैंने वात बोलने से मज़बूत रहे।

मैत्री– के

भौषण माधुर्य तथा भिडियोम (1700 जीव)
(माफ़ी: डॉ. याबु मिस्किय, डॉ. विकल्पी बेंगल)
(के) माधुर्य सूर्य तथा भिडियोम (हिंदीम तथा बिंदम)
(अ) पृष्ठभूमी

मैत्री– की

भौम जी (माफ़ी: उदासीन मिस्किय लाल और विकल्पी बेंगल), वाक़ लाल रेड पुलेजर, अधीनस्थ।
(हिंदम– रमुन्सा/रमुन्सा रुमुन्सा/सा पृष्ठ)

मैत्री– और

(के) यहाँ यहाँ के यहाँ यहाँ पृष्ठ
(अ) हिंदम हिंदम : पृष्ठियोग, पृष्ठ पृष्ठ बनाए तत्व तत्व हिंदम तथा हिंदम

मैत्री– अधि

बैंकारी अधि वाणी बैंकारी
(बैंकारी दी पवित्रिय दी बैंकारी/दीवारी/फ्लाइरी बैंकारी दी बिंदम तथा बिंदम)

20 अधि
Mudhli Punjabi

SEMESTER–II

भूमध्य एशिया (In lieu of Compulsory Punjabi)

समयः 3 पंडे

बुल अंकः 50

भूमध्य एशिया भौतिकीय विषय के उपरि

1. पूर्ण प्रांंद देने चाहना चाहना चाहना चाहना। उत्तर प्रांंद देने पुरुष पुरुष पुरुष पुरुष।
2. उत्तर प्रांंद देने पुरुष पुरुष पुरुष पुरुष। उत्तर प्रांंद देने पुरुष पुरुष पुरुष पुरुष।
3. उत्तर प्रांंद देने चाहना चाहना चाहना।
4. पूर्ण प्रांंद देने चाहना चाहना चाहना चाहना। उत्तर प्रांंद देने पुरुष पुरुष पुरुष पुरुष।

पाठ-सूची

मैवस्ट्रीज़े

स्मारक मूलिकाएं : पहाड़ भृदे भृदे (छंद, धनिकम, विदिशाम, विदिशाम, विदिशाम, समयवत, जीवन भृदे विदिशाम)

मैवस्ट्रीज़ी

भूमध्य एशिया भौतिकीय विभाग

(२) मामले एवं, मामले एवं भिमवत एवं (भिमवत भृदे भृदे)

(३) सिद्धांतात्मक एवं, पूर्णप्रांंद एवं भृदे चाहने चाहने चाहने (भृदे भृदे भृदे)

मैवस्ट्रीज़ी

पूर्ण प्रांंद

मथिल विभाग

मैवस्ट्रीज़ी

पिंडी प्रांंद (प्रत्येक भृदे चाहने भृदे)

मामले भृदे मूलिकाएँ
SEMESTER-II

FUNCTIONAL PUNJABI (VOCATIONAL)
(ਪੰਜਾਬੀ ਵੱਡਾ ਵਿਦਵਾਨ) (ਟੈਸਟਮੰਡ)

ਭਾਲੋ ਅਭਿਆਸ : 100

ਪਰਚਾ ਏ :  ਲਿਖਣ ਸ਼ੈਲੀਆਂ

ਪਰਚਾ ਬੀ :  ਪੰਜਾਬੀ ਸਲਹਾਦਾਰ

(ਚਾਲ ਕਲਾ)

ਸਾਹਿਤ ਜਾਨਵਰੀ

ਸਾਹਿਤ : ਇੱਟ

ਪਰਚਾ ਏ -  ਲਿਖਣ ਸ਼ੈਲੀਆਂ

ਮੂਲ ਅਭਿਆਸ : 50

1. ਕਾਵਣੀ ਪੇਸ਼ ਕਰਨ ਲਈ ਸੰਖਤ ਸੰਖਤ ਲਿਖੇ।
2. ਵਿਚਾਰਕ ਸੰਖਾ ਵਿੱਚ ਹਿੱਸਾ ਵਿੱਚ ਲਿਖੇ।
3. ਇਹ ਪੰਜਾਬੀ ਵਿੱਚ ਟੇਸਟ ਦੀ ਸਲਹਾਦਾਰ ਚੌਲਜ।
4. ਕਾਵਣੀ ਸ਼ਾਹਨਵਾਲੀ ਸੰਖਤ ਸ਼ਾਹਨਵਾਲੀ ਹਿੱਸਾ ਵਿੱਚ ਲਿਖੇ।

ਪਰਚਾ ਬੀ -

ਸਾਹਿਤ, ਸਾਹਿਤ ਵਿਦਵਾਨ ਮਾਤਰ ਸਾਹਿਤ

ਸਾਹਿਤ ਦੀ ਮਾਤਰ ਹਿੱਸਾ ਲਿਖੇ।

ਸਾਹਿਤ ਵਿਦਵਾਨ- ਪੰਜਾਬੀ

ਸਾਹਿਤ ਵਿਦਵਾਨ- ਫੁੱਚਕਾ ਵਿਦਵਾਨ

ਸਾਹਿਤ ਵਿਦਵਾਨ- ਫੁੱਚਕਾ ਵਿਦਵਾਨ

ਸਾਹਿਤ ਵਿਦਵਾਨ- ਫੁੱਚਕਾ ਵਿਦਵਾਨ

ਸਾਹਿਤ ਵਿਦਵਾਨ- ਫੁੱਚਕਾ ਵਿਦਵਾਨ
B.A./B.Sc. (Semester System) (12+3 System of Education) (Semester–II) (Session 2019-20)
(Faculty of Languages)

SEMESTER–II

FUNCTIONAL PUNJABI (VOCATIONAL)

(ਫ਼ੋਰਕਸ਼ਨ ਪੁੰਜਾਬੀ) (ਤੋਂਬਕਾਸਰਜ)

(ਭਾਗ- ਅ)

ਪੁਰਵਤਵਰਣ

ਸਭਾ : 1 ਚੌੜਾ

ਪਹਚਾਨ ਵਿੱਚ - ਉਤਸਮ ਸੰਬੰਧ

ਵੱਲ ਭਾਵ: 50

ਪਹਾੜ-ਬੁੱਠ

ਮੈਵਸਤ-ਦੀ

ਪੇਠਵੀ ਵਜਨ

ਕੁਝ ਨੇ ਤਾਜਾ, ਮੈਵਸਤ ਉ ਤਾਕੁਆ ਸਾਹਿਤਕਾਰ ਪੁਰਵਤ ਵਚਨਮਾ ਉੱਤਰ ਆਸਾਂ ਦਾ ਸਹਾਹਕਾਰ।

ਕਠਿਆ ਦੀ ਪੇਠਵੀ ਪ੍ਰਧਾਨ ਦੀ ਮਿਲਾਣੀ।

ਮੈਵਸਤ-ਦੀ

ਹਿੱਂ ਕਾਲੀ ਕੈਨ ਪਸ਼ੁਆ ਮਨੀ ਦਾ ਦਰਜਾ।

(ਚੇਹਰਾ, ਘੱਟ ਖਿਆਲ, ਬੋਲਣ ਦੇ ਸੰਚਾਰ, ਬੋਲਣ ਪ੍ਰੁੜੀਕਾਰ, ਰੱਖ ਪ੍ਏ ਉ ਪੁੱਛ ਲਾਖ ਵਚਨ, ਮਾਤ ਪੁੱਛ ਵਧੁਆ ਪੁੱਛ, ਵਧੁਆ, ਦੇਸ਼ੁਆ ਵਧੁਆ ਪੁੱਛ)

ਮੈਵਸਤ-ਨੀ

ਸਾਹਿਤ ਮਾਧਿਕਾਰਕ ਸਹਾਕਾਰ ਦੀਖ ਪਸ਼ੁਆ ਮਨੀ ਦਾ ਦਰਜਾ।

(ਗੁੱਟ ਮੈਟੇਸ਼, ਤੇਰ ਮੈਟੇਸ਼, ਆਰਸੀ ਸਾਹਿਤ ਉੱਤਰ ਪ੍ਰਤੀਕ ਤੁਹ ਤੀ ਆਜ਼ਿਆ ਲਾਗਤ ਉੱਤਰ ਦੇਣ ਦਵਾਰ ਅਕਾਰ)

ਮੈਵਸਤ-ਨੀ

ਕੀਤੀ ਸਿਭਾਈਆਂ ਦੀਖ ਘੁੱਟਾਲ

ਨਵਹਾਰੀ ਬੇਲਟ ਦੀ ਅਧਿਕਾਰ

ਠੇਤ : ਪੁਰਵਤਵਰਣ ਦੀ ਹੌਰਾਨੀਆਂ ਦਾ ਪਸ਼ੁਆ ਪੁਕਾਰਤਾ ਦਾ ਮਾਤਰ ਦਾ ਅਧਾਕ ਪਹਾਣਾ ਜਰਾ ਕੀਤਾ।
SEMMESTER–II
PHYSICAL EDUCATION
(THEORY)

Time: 3 Hours

Max. Marks: 100
Theory Marks: 60
Practical Marks: 40

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
2. Skeletal System: Types of bones, names of the various bones of the body, Various types of Joints.

SECTION–B
5. Nutrition: Elements of balanced diet, Functional Diet/Food
6. Doping in sports.

SECTION–C
7. Meaning and scope of Health Education. Hygiene problems of educational institutions and their remedial measures.
8. Personal hygiene; Care of eyes, teeth, ears, skin, hair and nails.

SECTION–D
10. First aid in case of snake bite, drowning, electric shock, burns, fracture, dislocation, sprain and strain.
11. Effects of Alcohol and smoking on health.
12. Communicable Diseases: Mode of transmission, prevention and control of tuberculosis, hepatitis (A & B), Rabies and HIV/AIDS.
SEMESTER–II

PHYSICAL EDUCATION
(PRACTICAL)

Marks: 40

Division of Marks: Athletics (12) + Games (12) + Ground Markings (3+3), Practical Note Book (5), Viva–Voce (5)

➢ Athletics Performance ————
  100M, Long Jump for Boys
  100M, Long Jump for Girls

➢ Games (Boys & Girls)—— Fundamentals, Rules, Performance
  Handball
  Kho–Kho

Suggested Readings:-

3. Parror, J.W. anatomy and Physiology for Physical Education Teachers, Lend; Edward Arnold
4. Tadan D.K. et al,: Scientific basis of Physical Education and Sports, Friends Publication,
   New Delhi, 2001.
5. Singh Ajmer and Gill Jagtar: Essentials of Physical Education and Olympic Movement,
   University, Patiala, 2000.
   Patiala, 2008.