# CLASS XI GENERAL ENGLISH 

CCE: 25 marks
Total: 75 marks

## STRUCTURE OF QUESTION PAPER

## Do all questions

PART - A (Prose lessons meant for intensive study)
14 marks

1. Short answer questions. (one line answer) 4 out of 5 from 5 different lessons. 4 marks
2. Long answer questions on theme, incident, content, character etc....(50 to 60 words) ( 2 out of 4 from 4 different lessons)

6 marks
3. Seen passage for Comprehension. (passage of 150 words followed by 4 questions, one on the name of the author and chapter, two single line, comprehension questions, one on Vocabulary (meanings of 2 out of 3 given words in simple English)
$1+1+1+1=4$ marks
PART - B (Poetry)
6 marks
4. Central idea (1 out of 2 )

2 marks
5. Comprehension questions on a given stanza (4 questions including a question on name of the poet/poem, Rhyme/Simile/Metaphor/Personification/Alliteration/ Imagery etc on selected stanza). (1 out of two given stanzas to be attempted)

4 marks
PART-C
10 marks

## (Prose lessons meant for extensive reading) <br> Supplementary Reader

6. Short answer questions (one line answer) 4 out of 6 to be answered from 6 different lessons

4 marks
7. Long answer type ( 50 to 60 words) questions on Character/incident/theme etc ( 2 out of 4 to be answered from 4 different lessons) 6 marks

PART-D (Grammar and Composition)
20 marks
(Grammar to be text based up to the extent of $50 \%$ from Prose lessons meant for intensive study only)

1. Translation (sentences from Punjabi/Hindi to English). 4 marks
2. Do as directed. 8 marks
a. Prepositions
b. Determiners
c. Modals
d. Use of the same words as verb, noun and adjectives
e. Removal and use of too
f. Tenses
g. Voice
h. Narration
3. Note making/Message writing/Notice writing/Advertisement writing (to attempt 1 out of the given 2)

4 marks
4. Letter writing (only social and personal) (with internal choice) 4 marks

## Section A

## Lessons for Intensive Study

1. Gender Bias
2. The Portrait of a Lady
3. Of Studies
4. Liberty and Discipline
5. A President Speaks
6. The Earth is not Ours
7. Let's Not Forget the Martyrs
8. Water- A True Elixir
9. The First Atom Bomb
10. No Time for Fear

## Section B <br> Poetry

1. Lines Written in Early Spring
2. Mother's Day
3. Television
4. Upagupta
5. Confessions of A Born Spectator
6. The Little Black Boy
7. A Thing of Beauty is a Joy For Ever

## Section C

## Lessons for Extensive Study

1. An Astrologer's Day
2. The Tiger in the Tunnel
3. Sparrows
4. The Model Millionaire
5. The Panch Parmeshwar
6. The Peasant's Bread

## Section D

## Grammar

a. Preposition
b. Determiners
c. Use of the same word as noun, verb and adjective
d. Models
e. Tenses
f. Removal and use of too
g. Voice
h. Narration

## Composition

a. Note Making
b. Message Writing
c. Notice Writing
d. Advertisement Writing
e. Letter Writing

लिषडी पेपठ:50 भீव भांडगिव भुलांवट: 25 भंव

वॉल : 75 भंव
भंव हंड भडे पाठ-वूभ

| लड्री रं: | यठ-वू | भंव |
| :---: | :---: | :---: |
| 1. |  | 16 |
| 2. |  <br>  | 09 |
| 3. |  पैठ गठरा। | 19 |
| 4. |  | 6 |
|  | वॅल भోव | 50 |

## यूम्नर Чॅउठ टी ब्छय ठेषा

## 

 टी हंड गेठ सिषे भठ्रमण गेद्टेगी :-
 हाल्ढ़ यूम्नत)






$10 \times 1=10$ भंव

บम्ठ గं: 2

यमतठ 우: 3
 विग सा्टेठा।
$6 \times 1 / 2=3$ भंव


$5 \times 1=5$ भंव
 हप्टी विग नाए्टेगा।
$11 / 2+4+11 / 2=7$ भंव
 नाग्टेगा।

4 भंव

5 भंव

$5 \times 1=5$ भीव



# Class-XI AGRICULTURE 

## STRUCTURE OF QUESTION PAPER (THEORY)

1. There will be one theory paper comprising of 23 questions. All questions will be compulsory.
2. Marks for each question are indicated against it.
3. Question Nos. 1-10 are objective type questions carrying 1 mark each. Answer to each question will be in one line or few words only.
4. Question Nos. 11-15 are very short answer type questions carrying 2 marks each. Answer to each question will be in 20-30 words.
5. Question Nos. 16-20 are short answer type questions carrying 3 marks each. Answer to each question will be in 80-100 words.
6. Question Nos. 21-23 are long answer type questions carrying 5 marks each. There will be $100 \%$ internal choice.
7. There will be no objective type questions such as yes/no, tick/cross, fill in the blanks, multiple choice, true/false etc.
8. The question paper should be strictly from the prescribed syllabus subject to the above mentioned guidelines.
9. Candidates will be provided with one answer book of 32 pages only. No extra/continuation sheet will be provided.

STRUCTURE OF QUESTION PAPER
(PRACTICAL)

## Time : 3 Hours

Marks: 20
The question paper will be set up by the examiner on the spot.

1. A group of students for practical should not be more than 20 students.
2. There will be two sections in the question paper:
(i) Soil and Crop Management Practices including Livestock Farming and Poultry Production.
(ii) Agriculture Biology.
3. Practical note book 2 marks
4. Viva-voce 2 marks
5. 4 Practical of 4 marks each 16 marks

## SYLLABUS (Theory)

## Unit-1 SOIL AND SOIL MANAGEMENT

1. Elementary knowledge of rock and minerals, weathering of rocks, soil formation, soil profile, alkaline and acidic soils.
2. Elementary knowledge of soil texture and structure, properties of soiled separates (sand, silt and clay), textual classification of soils, Structural classification of soil, soil tillage.
3. Elementary knowledge of water, importance of water in plant growth, various methods of irrigation and water lifts, used in Punjab.
4. Elementary knowledge of soil fertility- Factors affecting soil fertility. Methods of maintaining soil fertility. Organic manures (compost, F.Y.M., oil cakes and green manures) and inorganic fertilizers (nitrogenous, phosphatic and potassic and mixed fertilizers). Introduction to micronutrients.
5. Elementary knowlede of water logging-causes and remedies.
6. Elementary knowledge of tillage, implements used.

## UNIT-2 FARM CROP AND FARM MANAGEMENT <br> (Elementary knowledge)

1. Classification of crops, rotation of crops, crop mixture.
2. Study of the following crops with respect to their climatic and soil requirements, area, preparation of seedbed, time of sowing, seed rate, manurial requirement, spacing, interculture, irrigation, important pest diseases, harvesting, threshing, yield etc.
(a) Wheat, barley, gram, toria, barseem, potato, peas, radish, carrot, turnip and onion.
(b) Cotton, maize, sugarcane, rice, groundnut, bajra, sorghum, brinjal, okra, cauliflower, gourd, melons, tomato, sunflower.
3. Fruit tree-Importance of fruits and irrigatinal requirements for growing, layout of orchards: Cultivation of mango, guava, grapes, citrus, ber and peaches, important pests and diseases of fruit and their control.
4. Common weeds of the Punjab and their control.
5. Farm Management-Study of farming as business, costs of farm operations of major crops; sowing, interculture, harvesting and threshing, cost and income returns from major crops, simple farm records and accounts.

## UNIT-3 AGRICULTURE BIOLOGY-BOTANY

1. Biology-its definitions, comparison of living and non-living things, difference between animals and plants.
2. Cell-structure and cell division in plants, simple tissues in plants.
3. Elements of plant classification including major groups with common examples.
4. Study of the forms, structure and functions of root, stem, leaf and flower.
5. Vegetative reproduction-natural and artificial.
6. Seed structure of gram, pea, maize and castor and germination of seed. Conditions necessary for germination. Dispersal of seed.
7. Elementary study of bacteria and fungi and their economic importance.

## UNIT-4 AGRICULTURE BIOLOGY-ZOOLOGY

1. Study of animal cell-its structure and division of animals.
2. Study of simple tissues in animals.
3. Study of animal classification indicating major phyla with examples.
4. Protozoa-Study of Amoeba and Entamoeba.
5. Study of external characters of Liver fluke, Ascaris, Earthworm and their economic importance.
6. Study of general characters of insects with specific reference to the study of external characters of ak-grass hopper.
7. Study of external characters of frog, fish and rabbit.
8. Economic importance of mammals.

## SYLLABUS (PRACTICAL)

Time : 3 Hours
Marks: 20

## SOIL MANAGEMENT AND CROP CULTURE

1. Identification of soil by feel and touch method. Measurement of land.
2. Familiarity with farm implements and their handling, ploughing, preparation of seed-bed, sowing and harvesting of major field crops and vegetables and their harvesting.
3. Identification of common weeds, crops and their seed and fruit trees.

## AGRICULTURE BIOLOGY

## PART-A

General survey of plant kingdom, study of simple tissues of plant, structure and form of root, stem, leaf and flower. Demonstration of grafting, layering, budding, cutting,; Demonstration of studies of bacteria and fungi.

PART-B

1. General survey of animal kingdom.
2. Study of external characters of amoeba, liver fluke, ascaris, earthworm, ak-grass, hopper, frog, fish and rabbit.
Note : Students will do all the practical work of the farm attached to the school and record in the practical note book maintained for this purpose.

## STRUCTURE OF QUESTION PAPER (Theory)

1. There will be one theory paper comprising of 26 questions. The student has to attempt total 20 question out of 26 as per the directions given below:
2. Question no. 1 to 5 will be of one mark each.
3. Question no. 6 to 14 will be of two marks each. Candidate can attempt any 6 questions out of 9 questions.
4. Question no. 15 to 23 will be of three marks each. Candidate can attempt any 6 questions out of 9 questions.
5. Question no. 24 to 26 will be of five marks each. There will be internal choice in them.
6. Distribution of marks over different dimensions of the paper will be as follows.

| LEARNING OUTCOMES | MARKS | PERCENTAGE OF MARKS |
| :--- | :---: | :---: |
| KNOWLEDGE | 18 | $36 \%$ |
| UNDERSTANDING | 22 | $44 \%$ |
| APPLICATION | 10 | $20 \%$ |
| Total | 50 | $100 \%$ |

7. There will be no question of the objective type such as Yes/No, tick/cross, fill in the blanks, multiple choice, true/false etc.
8. Use of un-programmable calculator is allowed. The log tables can be used.
9. Total weightage of numerical will be $20 \%$

UNITWISE DISTRIBUTION OF MARKS

| Unit | Title | Marks |
| :---: | :--- | :---: |
| I | Diversity in living World | 09 |
| II | Structure Organization in animals \& plants | 09 |
| III | Cell structure and functions | 11 |
| IV | Plant physiology | 10 |
| V | Human anatomy and physiology | 11 |
| Total Marks |  | 50 |

SCHEMATIC DISTRIBUTION OF MARKS

| Unit | 1 mark <br> question | 2 marks <br> questions | 3 marks <br> questions | 5 marks <br> question | Total |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Unit-I | 1 | 1 | 2 | - | 09 |
| Unit-II | 1 | 1 | 2 | - | 09 |
| Unit-III | 1 | 1 | 1 | 1 | 11 |
| Unit-IV | - | 1 | 1 | 1 | $\mathbf{1 0}$ |
| Unit-V | 2 | 2 | - | 1 | 11 |
| Total questions | 5 | 6 | 6 | $\mathbf{3}$ | $\mathbf{2 0}$ |
| Total Marks | 5 | 12 | $\mathbf{1 8}$ | 15 | 50 |

## INSTRUCTION FOR PAPER SETTER

Note:

1. There will be one theory paper consisting of total 26 questions. Three questions of two marks each \& three questions of three marks each are choice questions will be set in the paper.
2. Question no. 6 to 14 will be of 2 marks each, out of total 9 questions carrying 2 marks each, candidate can attempt any 6 questions.
3. Question no. 15 to 23 will be of 3 marks each. Out of 9 questions carrying 3 marks each, candidate can attempt any 6 questions.
4. From one unit, only choice question either of two marks or three marks can be set. Choice question of two marks or three marks will be set only from those units carring two or three marks questions.
5. Question No. 24-26 will be of five marks and there will be $100 \%$ internal choice in them.

## SYLLABUS (THEORY)

## 1. Diversity in Living World

What is living?; Biodiversity; Need for classification; Three domain of life; Taxonomy \& Systematic; Concept of species and taxonomical hierarchy; Binomial nomenclature; Tools for study of Taxonomy-Museums, Zoos, Herbaria, Botanical gardens.

Five Kingdom classification; Salient features and classification of Monera; Protista and Fungi into major groups; Lichens; Viruses and Viroids.

Salient features and classification of plants into major groups-Algae, Bryophytes, Pteridophytes, Gymnosperm and Angiosperm (three to five salient and distinguishing features and at least two examples of each category); Angiosperms-classification up to class, characteristics features and examples.

Salient features and classification of Animals-non chordate up to phyla level and chordate up to classes level (three to five salient features and at least two examples)

## 2. Structural Organization in Animals and Plants

Morphology and modifications; Tissues; Anatomy and functions of different parts of flowering plants: Root, steam, leaf, inflorescence-cymose and racemose, flower, fruit and seed (To be dealt along with the relevant practical of the practical syllabus).

Animal tissues; Morphology, anatomy and functions of different systems (digestive, circulatory, respiratory, nervous and reproductive) of an insect (cockroach). (Brief account only)

## 3. Cell Structure and Function

Cell theory and cell as the basic unit of life; Structure of prokaryotic and eukaryotic cell; Plant cell and animal cell; Cell envelope, cell membrane, cell wall; Cell organellesstructure and function; Endomembrane system-endoplasmic reticulum, Golgi bodies, lysosomes, vacuoles; mitochondria, ribosomes, plastids, microbodies; Cytoskeleton, cilia, flagella, centrioles (ultra structure and function); Nucleus-nuclear membrane, chromatin, nucleolus.

Chemical constituents of living cells: Biomolecules- structure and function of proteins, carbodydrates, lipid, nucleic acid; Enzymes-types, properties, enzyme action.

Cell division: Cell cycle, mitosis, meiosis and their significance.

## 4. Plant Physiology

Transport in plants: Movement of water, gases and nutrients; Cell to cell transportDiffusion, facilitated diffusion, active transport; Plant- water relations-Imbibition, water potential, osmosis, plasmolysis; Long distance transport of water- Absorption, apoplast, symplast, transpiration pull, rootpressure and guttation; Transpiration-Opening and Closing of stomata; Uptake and translocation of mineral nuterients- Transport of food; Phloem transport, Mass flow hypothesis; Diffusion of gases (brief mention).

Mineral nutrition: Essential minerals, macro and micronutrients and their role; Deficiency symptoms; Mineral toxicity; Elementary idea of Hydroponics as a method to study mineral nutrition; Nitrogen metabolism-Nitrogen cycle, biological nitrogen fixation.

Photosynthesis: Photosynthesis as a means of Autotrophic nutrition; Where does photosynthesis take place; How many pigments are involved in Photosynthesis (Elementary idea); Photochemical and biosynthetic phases of photosynthesis; Cyclic and non cyclic photophosphorylation; Chemiosmotic hypothesis; Photorespiration; $\mathrm{C}_{3}$ and $\mathrm{C}_{4}$ pathways; Factors affecting photosynthesis.

Respiration: Exchange of gases; Cellular respiration- glycolysis, fermentation (anaerobic), TCA cycle and electron transport system (aerobic); Energy relations- Number of ATP molecules generated; Amphibolic pathways; Respiratory quotient.

Plant growth and development: Seed germination; Phases of plant growth and plant growth rate; - Conditions of growth; Differentiation, dedifferentiation and redifferentiation,

Sequence of developmental process in a plant cell; Growth regulators-auxin, gibberellin, cytokinin, ethylene, ABA; Seed dormancy; Vernalisation; Photoperiodism.

## 5. Human Physiology

Digestion and Absorption: Alimentary canal and Digestive glands; Role of digestive enzymes and gastrointestinal hormones; Peristalsis, Digestion, absorption and assimilation of proteins, carbohydrates and fats, Calorific value of proteins, carbohydrates and fats (for box item not to be evaluated); Egestion; Nutritional and digestive disorders - PEM, indigestion, constipation, vomiting, jaundice, diarrhea.

Breathing and Respiration: Respiratory organs in animals (Recall only); Respiratory system in humans; Mechanism of Breathing and its regulation in humans - Exchange of gases, transport of gases and regulation of respiration, Respiratory volumes; Disorders related to respiration - Asthma, Emphysema, Occupational Respiratory disorders.

Body fluids and Circulation: Composition of blood, Blood groups, Coagulation of blood; Composition of Lymph and its function; Human circulatory system - Structure of human heart and blood vessels; Cardiac cycle, Cardiac output, ECG; Double circulation; Regulation of cardiac activity; Disorders of circulatory system - Hypertension, Coronary artery disease, Angina pectoris, heart failure.

Excretory products and their elimination: Modes of excretion - Ammonotelism, ureotelism; Uricotelism; Human excretory system - structure and function; Urine formation, Osmoregulation; Regulation of kidney-function - Renin-angiotensin, Atrial Natriuretic Factor, ADH and Diabetes insipidus; Role of other organs in excretion; Disorders - Uraemia, Renal failure, Renal calculi, Nephritis; Dialysis and artificial kidney.

Locomotion and Movement: Types of movement - ciliary, flagellar, muscular; Skeletal muscle - contractile proteins and muscle contraction; Skeletal system and its functions. (To be dealt with the relevant practical of Practical Syllabus); Joints; Disorders of muscular and skeletal system - Myasthenia gravis, Tetany, Muscular dystrophy, Arthritis, Osteoporosis, Gout.

Neural control and coordination: Neuron and nerves; Nervous system in humans central nervous system, Peripheral nervous system and visceral nervous system; Generation and conduction of nerve impulse; Reflex action; Sense organs; Sensory Perception; Elementary structure and function of eye and ear.

Chemical coordination and regulation: Endocrine glands and hormones; Human endocrine system - Hypothalamus, Pituitary, Pineal, Thyroid, Parathyroid, Adrenal, Pancreas, Gonads; Mechanism of hormone action (Elementary idea); Role of hormones as messengers and regulators, Hypo- and hyperactivity and related disorders. (Common disorders eg. Dwarfism, Acromegaly, Cretinism, goiter, exopthalmic goiter, diabetes, Addison's disease).
Imp: Diseases related to all the human physiology systems to be taught in brief.

## STRUCTURE OF GUESTION PAPER (PRACTICAL)

## Time: $\mathbf{3 . 0 0} \mathbf{~ h r s . ~}$

1. Experiment and Spotting 12
2. Record of one investigatory and Viva based on the project
3. Class record and Viva based on experiments 4
Total 20

## SYLLABUS (PRACTICALS)

## A. List of Experiments

1. Study and describe three locally available common flowering plants from each of the following families (Solanaceae, Fabaceae and Liliaceae) including dissection and display of floral whorls and anther and ovary to show number of chambers. Types of root (Tap and Adventitious); Stem (Herbaceous and woody); Leaf (arrangement, shape, venation, simple and compound).
2. Preparation and study of T.S. of dicot and monocot roots and stems (primary).
3. Study parts of a compound microscope.
4. Study of the specimens and identification with reasons-Bacteria, Oscillatoria, Spirogyra, Rhizopus, mushroom, Yeast, liverwort, moss, fern, Pine, one monocotyledonous plant and one dicotyledonous plant and one lichen.
5. Study of specimens and identification with reasons-Amoeba, Hydra, Liverfluke, Ascaris, leech, earthworm prawn, silkworm, honeybee, snail, starfish, shark, Rohu, frog, lizard, pigeon and rabbit.
6. Study of tissues, and diversity in shapes and sizes of plant and animal cells (e.g palisade cells, guard cells, parenchyma, collenyma, sclerenchyma, Xylem, Phloem,

Squamous epithelium, muscle fibers and mammalian blood smear) through temporary/permanent slides.
7. Study of different modifications in root, stem and leaves.
8. Study and identification of different types of inflorescence.
9. Study of osmosis by potato osmometer.
10. Study of plasmolysis in epidermal peels (e.g. Rhoeo leaves).
11. Study of distribution of stomata in the upper and lower surface of leaves.
12. Comparative study of the rates of transpiration in the upper and lower surface of leaves.
13. Test for the presence of sugar, starch, protein and fats. To detect them in suitable plant and animal materials.
14. Separation of plant pigments through paper chromatography.
15. To study the rate of respiration in flower buds/leaf tissue and germinating seeds.
16. To test the presence of urea in urine.
17. To detect the presence of sugar in urine/blood sample
18. To detect the presence of albumin in urine.
19. To detect the presence of bile salts in urine.
20. Study of imbibition in seeds/raisins.
21. Observation and comments on the experimental set up for showing.
a. Anaerobic respiration
b. Phototropism
c. Apical bud removal
d. Suction due to transpiration
22. Study of human skeleton and different types of joints.
23. Study of external morphology of earthworm, cockroach and frog through models.
24. Study of mitosis in onion root tip cells and animals cells (grasshopper) from permanent slildes.

# Class-XI BIOTECHNOLOGY 

Time: $\mathbf{3} \mathbf{h r s}$.
Theory: 50 Marks
Practical: 20 Marks
CCE: 30 Marks
Total: $\mathbf{1 0 0}$ Marks

## STRUCTURE OF QUESTION PAPER THEORY

1. There will be one theory paper comprising of 23 questions. All questions will be compulsory.
2. Marks for each question are indicated against it.
3. Guestion Nos. 1-10 are objective type questions carrying 1 mark each. Answer to each question will be in one line or few words only.
4. Guestion Nos. 11-15 are very short answer type questions carrying 2 marks each. Answer to each question will be in 20-30 words.
5. Question Nos. 16-20 are short answer type questions carrying 3 marks each. Answer to each question will be in 80-100 words.
6. Question Nos. 21-23 are long answer type questions carrying 5 marks each. There will be $100 \%$ internal choice.
7. There will be no objective type questions such as yes/no, tick/cross, fill in the blanks, multiple choice, true/false etc.
8. The question paper should be strictly from the prescribed syllabus subject to the above mentioned guidelines.
9. Candidates will be provided with one answer book of 32 pages only. No extra/continuation sheet will be provided.

## PRACTICAL

Time : 3 Hours
Distribution of marks:

1. One Experiment 6 marks
2. Practical record 3 marks
3. Viva on practical 3 marks
4. Project work
(a) Write up
4 marks
(b) Viva
4 marks

A group of students for practical should not be more than 20 students.
SYLLABUS

## UNIT-1 INTRODUCTION TO BIOTECHNOLOGY

Fundamentals of Biochemical Engineering
Biotechnology and Society.

## UNIT-II

BIOMOLECULES
Building Blocks of Biomolecules-Structure and dynamics.
Structures and function of Macromolecules.
Biochemical Techniques.

## UNIT-III CELL AND DEVELOPMENT

The basic unit of life
Cell Growth and Development
Cellular Techniques
UNIT-IV GENETICS AND MOLECULAR BIOLOGY
Principles of Genetics
Genome Function
Genetical Techniques

## PRACTICAL

Note:- Every student is required to do the following experiments in the academic session. List of Experiments (Numbering is according to syllabus).

1. Preparation of buffers and pH determination.
2. Sterilization techniques (Wet and Dry Sterilization, Chemical Sterilization and Ultra filtration.
3. Media preparation (Solid and Liquid L.B. medium)
4. Isolation of bacteria from curd and staining of bacteria.
5. Determination of bacterial growth curve.
6. Isolation of milk protein (casein).
7. Estimation of protein by Burette method.
8. Study of various stages of mitosis and calculation of mitotic index.
9. Preparation of Karyotype.
10. Cell viability assay (Using Evans blue stain)
11. Cell counting (Using haemocytometer)
12. Determinaion of blood groups.
13. Isolation of genomic D.N.A.
14. Detection of D.N.A. by gel electrophoresis.
15. Estimation of D.N.A.
16. Assaying the enzyme acid phosphate.

Class-XI
BOOK KEEPING AND ACCOUNTANCY (Humanities Group)

Theory: $\mathbf{7 0}$ marks
CCE: 30 marks
Total: 100 marks

Structure of question paper

1. The question paper will cover whole of the syllabus.
2. 11 Questions will be set in the question paper.
3. All units of the syllabus should be given adequate representation in the question paper.
4. Question No. 1 consist of 8 sub part of 1 mark each. Answer of each part should be given in 1-15 words. Objective type questions may include questions with one word or one sentence answer / fill in the blanks / multiple choice type questions.
5. Question No 2 to 8 (of which three will be of numerical nature and other four will be theoretical nature) will carry 5 marks each. Answer of each theoretical question should be given in 15-20 lines.
6. Question No 9 to 11 will carry 9 marks each with internal choice. Of these, any two questions will have internal choice between theoretical and numerical questions while any one of these three will have only numerical question internal choice. Answer of each theoretical question should be given in 3-5 pages.
7. There is no word, line or page limit for numerical questions.
8. The use of non-programmable simple calculator is allowed.

Detail of questions set from each unit

| Unit <br> No. | Name of the unit | 1 <br> question | 5 marks <br> question | 9 marks <br> question |
| :---: | :--- | :---: | :---: | :---: |
| I | Introduction to Accounting | 1 |  |  |
| II | Theory Base of Accounting | 1 | 1 |  |
| III | Recording of Business transactions | 1 | 1 | 2 |
| IV | Trial Balance and Rectification of errors |  |  |  |
| V | Depreciation, Provisions and Reserves | 1 | 1 | 1 |
| VI | Bank Reconciliation Statement |  | 1 | 1 |
| VII | Accounting for bill of exchange <br> transaction | 1 |  |  |
| VIII | Financial Statements | 1 | 1 | 1 |
| IX | Computer in Accounting | 1 | 1 |  |
| X | Accounting and Data Base System | 1 | 1 |  |

## SYLLABUS

## Unit-1. INTRODUCTION TO ACCOUNTING

i) Accounting:- Meaning, Objectives, Accounting as Source of Information, Internal and External Users of Accounting Information and their Needs, Advantages and Limitations of Accounting, Difference between Book Keeping and Accountancy.
ii) Qualitative Characteristics of Accounting Information-Reliability, Relevance, Understandability and Comparability.
iii) Basic Accounting Terms-Asset, Liability, Capital, Expense, Income, Expenditure, Revenue, Debtors, Creditors, Goods, Cost, Gain, Stock, Purchase, Sales, Loss, Profit, Voucher, Discount: Cash and Trade Discount, Transaction, Drawings, Equity.

## Unit-2. THEORY BASE OF ACCOUNTING

i) Accounting Concepts:- Entity Money Measurement, Going Concern, Accounting Period, Cost Concept, Dual Aspect, Revenue Recognition (realisation), Matching, Accrual.
ii) Accounting Conventions:-Full Disclosure, consistency, Conservation, Materiality, Objectives.
iii) Accounting Standards:- Meaning, Nature, Need and List of Indian Accounting Standards.
iv) Accounting Mechanism:- Single Entry and Double Entry.
v) Accounting Cycle:- From Recording of Business Transaction to Preparation of Trial Balance and Final Accounts.
vi) Bases of Accounting:- Cash Basis, Accrual Basis.

## Unit-3. RECORDING OF BUSINESS TRANSACTIONS

i) Voucher and Transactions:- Origin of Transactions-Source Documents and Vouchers, Preparation of Voucher; Accounting Equation: Approach, Meaning and Analysis of Transaction using Accounting Equation; Rules of Debit and Credit.
ii) Recording of Transactions: Books of Original Entry-Journal, Special Purpose Books: (i) Cash Book-Simple, Cash book with Bank Column and Petty Cash Book, (ii) Purchase Book, Sales Book, Purchase Returns Book, Sales Returns Book, Bill Receivable Book. Bills Payable Book; Ledger Meaning, Utility, Format; Posting from Journal and Subsidiary Books; Balancing of Accounts.

## Unit-4. TRIAL BALANCE AND RECTIFICATION OF ERRORS

i) Trial-Balance; Meaning, Objectives, Advantages and Methods of Preparation.
ii) Errors: Types of Errors; Errors Affecting Trial Balance; Errors not affecting Trial Balance.
iii) Detection and Rectification of Errors (one sided and two sided), Use of Suspense Account.

## Unit-5. DEPRECIATION, PROVISIONS AND RESERVES

i) Depreciation: Meaning and Need for Charging Depreciation, Factors Affecting Depreciation, Methods of Depreciation- Straight Line Method, Written Down Value Method (excluding change in method), Method of Recording Depreciation Charging to Asset Account, Creating Provision for Depreciation/Accumulated Depreciation Account; Treatment of Disposal of Asset.
ii) Provision and Reserves: Meaning, Importance, Difference between Provisions and Reserves, Types of Reserves; Revenue Reserve, Capital Reserve, General Reserve, Specific Reserve and Secret Reserves.

## Unit-6. BANK RECONCILIATION STATEMENT

Meaning, Need, Preparation, Correct Cash Balance.

## Unit-7. ACCOUNTING FOR BILLS OF EXCHANGE TRANSACTION

i) Bills of Exchange and Promissory Note: Definition, Feature, Parties, Specimen and Distinction.
ii) Important Terms: Terms of Bill, Concept of Accommodation Bill, Days of Grace, Date of Maturity, Bill at Sight, Bill after Date, Negotiation, Endorsement, Discounting of Bill. Dishonor, Retirement.and Renewal of a Bill, Insolvency of Acceptor.
iii) Accounting Treatment of Bill Transaction.

## Unit- 8. FINANCIAL STATEMENTS

i) Financial Statements: Meaning and Objectives.
ii) Distinction between Capital Expenditure and Revenue Expenditure
iii) Balance Sheet: Need, Grouping, Marshaling of Assets and Liabilities, Vertical Presentation of Financial Statement.
iv) Adjustments in Preparation of Financial Statements with respect to Closing Stock, Outstanding Expenses, Prepaid Expenses, Accrued Income, Income Received in Advance, Depreciation, Bad Debts, Provision for Doubtful Debts, Provision for Discount on Debtors, Managers Commission.
v) Preparation of Trading and Profit \& Loss Account and Balance Sheet of Sole Proprietorship.

## Unit-9. COMPUTER IN ACCOUNTING

i) Introduction to Computer and Accounting Information System (AIS)
ii) Applications of Computers in Accounting: Automation of Accounting Process, Designing Accounting Reports, MIS reporting Data Exchange with other Information Systems.
iii) Comparison of Accounting Processes in Manual and Computerized Accounting, Highlighting Advantages and Limitation of Automation.
iv) Sourcing of Accounting System: Readymade and Customized and Tailor Made Accounting Systems. Advantages and Disadvantages of each Option.

## Unit-10. ACCOUNTING AND DATABASE SYSTEM

i) Accounting and Database Management System
ii) Concept of Entity and Relationship: Entities and Relationships in an Accounting System:
Designing and creating Simple Tables, Forms, Queries and Reports in the context of Accounting System.

# Class-XI <br> BUSINESS ORGANISATION \& MANAGEMENT <br> (Humanities Group) 

Theory: 70 marks
CCE: 30 marks
Total: 100 marks

Structure of question paper

1. The question paper will cover whole of the syllabus.
2. 11 Questions will be set in the question paper.
3. All units of the syllabus should be given adequate representation in the question paper.
4. Question No. 1 consist of 8 sub part of 1 mark each. Answer of each part should be given in 1-15 words. Objective type questions may include questions with one word or one sentence answer/fill in the blanks/multiple choice type questions.
5. Question No 2 to 8 will carry 5 marks each. Answer of each question should be given in 15-20 lines.
6. Question No 9 to 11 will carry 9 marks each with internal choice. Answer of each question should be given in 3-5 pages. Internal choice should not be set from the same unit.

Detail of questions set from each unit

| Unit No. | Name of the unit | $\mathbf{1}$ mark <br> questions | $\mathbf{5}$ marks <br> questions | 9 marks <br> questions |
| :---: | :--- | :---: | :---: | :---: |
| 1 | Nature and Purpose of Business |  | 1 | 1 |
| 2 | Structure of Business | 1 | 1 |  |
| 3 | Service Sector and Business | 1 | 1 | 1 |
| 4 | Social Responsibility of Business and <br> Business Ethics | 1 | 1 |  |
| 5 | Forms and Formation of Business <br> Enterprises | 1 | 1 | 1 |
| 6 | Sectoral Organisation of Business | 1 | 1 | 1 |
| 7 | Formation of a Company | 1 | 1 | 1 |
| 8 | Internal Trade | 1 | 1 | 1 |
| 9 | Sources of Business Finance | 1 | 1 | 1 |
| 10 | External Trade | 1 | 1 | 1 |

## SYLLABUS

## FOUNDATION OF BUSINESS

## UNIT-1 NATURE AND PURPOSE OF BUSINESS

a) Concept and Characteristics of Business.
b) Business-Profession and Employment- Distinctive Features.
c) Objectives of Business -Economic, Social and Human.
d) Business Risks - Nature and Causes.
e) Role of Profit in Business.
f) A brief outline of the evolution of business activities in India.

## UNIT-2 STRUCTURES OF BUSINESS

a) Classification of Business Activities, Industry and Commerce.
b) Industry and Types: Primary and Secondary.
c) E-Commerce-Meaning, Opportunities and Benefits, Resources required for successful E-Commerce implementation, Security and Safety for Business Transactions.
d) Outsourcing of Services: Nature, Need and Types, Financial Services, Advertising, Courier Services, Customer Support Services.
a) Banking: Types of Banks, Functions of Commercial Banks.
b) Insurance: Principles, Types; Life, General Fire, Marine and Insurance of other Risks, Health Insurance, Fidelity Insurance.
c) Communication: Postal, Telecom.
d) Warehousing : Types and Functions

## UNIT-4 SOCIAL RESPONSIBILITY OF BUSINESS AND BUSINESS ETHICS

a) Concept of the Social Responsibility.
b) Case for Social Responsibility and Human Rights.
c) Responsibility towards various Interest Groups, Investors, Employees, Consumers, Government and Community in General.

## UNIT-5 FORMS AND FORMATION OF BUSINESS ENTERPRISES

a) Meaning, Features, Merits and Limitations of following Forms -
a. Sole Proprietorship
b. Joint Hindu Family Business
c. Partnership-Partnership Deed (main clauses), Types of Partners, Partnership Formation, Registration
d. Co-operative Societies
e. Company: Types of Companies-Private, Public and Deemed Public Privileges of Private Company.
b) Choice of Form of Business Enterprise.
c) Factors to be considered for starting a Business.
d) Scope for setting up small Business Enterprises.

## UNIT-6 SECTORAL ORGANIZATION OF BUSINESS

a) Meaning, Features, Merits and Limitations of following:- Private Sector, Public Sector and Joint Sector.
b) Forms of Public Sectors Enterprises :
a. Departmental Undertaking
b. Starting Co-operative.
c. Government Company.
c) Global Enterprise (multi-national company)

## CORPORATE ORGANISATION, FINANCE AND TRADE

## UNIT-7 FORMATION OF COMPANY

a) Stages in the Formation of the Company
i. Promotion
ii. Incorporation
iii. Commencement of Business.

## UNIT-8 INTERNAL TRADES

a) Meaning and Types,
b) Wholesale Trade - Functions and Services.
c) Retail Trade Organization : Meaning, Types, Features, Merits and Limitations
i. Itinerant and Fixed Shop
ii. Departmental Store, Chain Shop, Mail Order Business, Franchise, Consumers, Co-operative Store (including super bazaar).
d) Direct Marketing, Tele-Marketing, Internal Marketing.

## UNIT-9 SOURCES OF BUSINESS FINANCE

a) Nature and Significance.
a. Sources of Finance
b. Equity and Preference Shares.
c. Debentures/Bonds Types: (Secured, Unsecured, Convertible and NonConvertible).
d. Retained Profits.
e. Public Deposits
f. Loan from Finance Institutions.
b) International Sources : GDR's, FDI

## UNIT-10 EXTERNAL TRADES

a) Nature and Importance.
b) Means of Export Promotion.
c) Incentive Available.
d) Export- Import Procedure and Documentation.
e) Nature and Importance of Export Processing Zones and Economic Zones.

## CHEMISTRY

Time: 3 Hours
Theory: 50 Marks
Practical: 20 Marks
C.C.E.: $\mathbf{3 0}$ Marks

Total: 100 Marks
STRUCTURE OF GUESTION PAPER (Theory)
1 There will be one theory paper comprising of 26 questions. The student has to attempt total 20 question out of 26 as per the directions given below:
2 Question no. 1 to 5 will be of one mark each.
3 Question no. 6 to 14 will be of two marks each. Candidate can attempt any 6 questions out of 9 questions.
4 Question no. 15 to 23 will be of three marks each. Candidate can attempt any 6 questions out of 9 questions.
5 Question no. 24 to 26 will be of five marks each. There will be internal choice in them.
6 Distribution of marks over different dimensions of the paper will be as follows.

| LEARNING OUTCOMES | MARKS | PERCENTAGE OF MARKS |
| :--- | :---: | :---: |
| KNOWLEDGE | 18 | $36 \%$ |
| UNDERSTANDING | 22 | $44 \%$ |
| APPLICATION | 10 | $20 \%$ |
| Total | 50 | $100 \%$ |

7 There will be no question of the objective type such as Yes/No, tick/cross, fill in the blanks, multiple choice, true/false etc.
8 Use of un-programmable calculator is allowed. The log tables can be used.
9 Total weightage of numerical will be $20 \%$
UNITWISE DISTRIBUTION OF MARKS

| SR.NO | UNIT | TOTAL MARK |
| :--- | :--- | :--- |
| 1 | Some Basic Concept of Chemistry | 03 |
| 2 | Structure of Atom | 03 |
| 3 | Classification of Elements and Periodicity in Properties | 02 |
| 4 | Chemical Bonding and Molecular Structure | 03 |
| 5 | Hydrogen | 03 |
| 6 | S-Block Elements (Alkali and Alkaline Earth Metals) | 03 |
| 7 | Organic Chemistry- Some Basic Principles and Techniques | 05 |
| 8 | Status of Matter: Gases and Liquids | 04 |
| 9 | Thermodynamics | 03 |
| 10 | Equilibrium | 05 |
| 11 | Redox Reaction | 05 |
| 12 | Some p-Block Elements, General introduction to p-Block <br> Elements | 05 |
| 13 | Hydrocarbons | 05 |
| 14 | Environmental Chemistry | $\mathbf{T}$ |
|  | TOTAL QUESTIONS \&TOTAL MARKS | $\mathbf{T} \mathbf{M}=\mathbf{5 0}$ |

Total Guestion in paper =26 including 6 choice questions

SCHEMATIC DISTRIBUTION OF MARKS

| Sr.No | UNIT | $\begin{gathered} 1 \\ \text { MARK } \end{gathered}$ | $\begin{gathered} 2 \\ \text { MARK } \end{gathered}$ | $\begin{gathered} 3 \\ \text { MARK } \end{gathered}$ | $\begin{gathered} 5 \\ \text { MARK } \end{gathered}$ | TOTAL MARK |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Some Basic Concept of Chemistry | 1 | 1 |  |  | 03 |
| 2 | Structure of Atom |  |  | 1 |  | 03 |
| 3 | Classification of Elements and Periodicity in Properties |  | 1 |  |  | 02 |
| 4 | Chemical Bonding and Molecular Structure |  |  | 1 |  | 03 |
| 5 | Hydrogen |  |  | 1 |  | 03 |
| 6 | S-Block Elements (Alkali and Alkaline Earth Metals) | 1 | 1 |  |  | 03 |
| 7 | Organic Chemistry- Some Basic Principles and Techniques |  | 1 | 1 |  | 05 |
| 8 | Status of Matter: Gases and Liquids | 1 |  | 1 |  | 04 |
| 9 | Thermodynamics |  |  | 1 |  | 03 |
| 10 | Equilibrium |  |  |  | 1 | 05 |
| 11 | Redox Reaction | 1 | 2 |  |  | 05 |
| 12 | Some p-Block Elements, General introduction to p-Block Elements |  |  |  | 1 | 05 |
| 13 | Hydrocarbons |  |  |  | 1 | 05 |
| 14 | Environmental Chemistry | 1 |  |  |  | 01 |
|  | TOTAL QUESTIONS \&TOTAL MARKS | $\begin{aligned} & \text { T. } \mathrm{Q}=5 \\ & \text { T.M }=5 \end{aligned}$ | $\begin{gathered} \mathrm{T} . \mathrm{Q}=6 \\ \mathrm{TM}=12 \end{gathered}$ | $\begin{gathered} \mathrm{T} . \mathrm{Q}=6 \\ \mathrm{~T} . \mathrm{M}=18 \end{gathered}$ | $\begin{gathered} \mathrm{T} . \mathrm{Q}=3 \\ \mathrm{~T} . \mathrm{M}=15 \end{gathered}$ | $\begin{aligned} & \mathrm{T} \cdot \mathrm{Q}=20 \\ & \mathrm{~T} \cdot \mathrm{M}=50 \end{aligned}$ |

## Total Question in paper =26 including 6 choice questions

## NOTE:- INSTRUCTIONS FOR PAPER SETERS

1. There will be one theory paper consisting of total 26 questions. Three questions of two marks each, three questions of three marks will be choice questins.
2. Question no 6 to 14 will be of 2 marks each, Out of total 9 questions carrying 2 marks each, candidate can attempt any 6 questions.
3. Question no 15 to 23 will be of 3 marks each. Out of 9 questions carrying 3 marks each, candidate can attempt any 6 questions.
4. From one unit, only choice question either of two marks or three marks can be set. Choice question of two marks or three marks will be set only from those units carring two or three marks questions.
5. Question No. 24-26 will be of five marks and there will be $100 \%$ internal choice in them.

## SYLLABUS (THEORY)

## Unit-I Some Basic Concepts of Chemistry

General introduction: Importance and scope of chemistry. Historical approach to particulate nature of matter, laws of chemical combination. Dalton's atomic theory: concept of elements, atoms and molecules. Atomic and molecular masses. Mole concept and molar mass: percentage composition, empirical and molecular formula; chemical reactions, stoichiometry and calculations based on stoichiometry.

## Unit-II Structure of Atom

Discovery of electron, proton and neutron; atomic number, isotopes and isobars. Thomson's model and its limitations, Rutherford's model and its limitations. Bohr's model and its limitations, concept of shells and subshells, dual nature of matter and light, De Broglie's relationship, Heisenberg uncertainty principle, concept of orbitals, quantum numbers, shapes of $s, p$, and d orbitals, rules for filling electrons in orbitals Aufbau principle, Pauli exclusion principle and Hund's rule, electronic configuration of atoms, stability of half filled and completely filled orbitals.

## Unit-III Classification of Elements and Periodicity in Properties

Significance of classification, brief history of the development of periodic table, modern periodic law and the present form of periodic table, periodic trends in properties of elements -atomic radii, ionic radii, Inert gas radii. lonization enthalpy, electron gain enthalpy, electronegativity, valence, Nomenclature of elements with atomic number greater than 100.

## Unit-IV Chemical Bonding and Molecular Structure

Valence electrons, ionic bond, bond parameters, covalent bond. Lewis structure, polar character of covalent bond, covalent character of ionic bond, valence bond theory.
resonance, geometry of covalent molecules, VSEPR theory, concept of hybridization involving s, p and d orbitals and shapes of some simple molecules, Molecular orbital theory of homonuclear diatomic molecules(qualitative idea only), hydrogen bond.

## Unit-V States of Matter: Gases and Liquids

Three states of matter. Intermolecular interactions, types of bonding, melting and boiling points. Role of gas laws in elucidating the concept of the molecule, Boyle's law. Charles' law, Gay Lussac's law, Avogadro's law. Ideal behaviour, empirical derivation of gas equation, Avogadro's number. Ideal gas equation. Derivation from ideal behaviour, liquifaction of gases, critical temperature, kinetic energy and molecular speeds (elementary idea) derivation from ideal behaviour, liquification of gasses, critical temperature
Liquid State - Vapour pressure, viscosity and surface tension (qualitative idea only, no mathematical derivations).

## Unit-VI Thermodynamics

Concepts of System, types of systems, surroundings. Work, heat, energy, extensive and intensive properties, state functions.
First law of thermodynamics - internal energy and enthalpy heat capacity and specific heat measurement of $\Delta \mathrm{U}$ and $\Delta \mathrm{H}$, Hess's law of constant heat summation, enthalpy of: bond dissociation, combustion, formation, atomization, sublimation. Phase transition, ionization, solution and dilution.
Introduction of entropy as a state function, Gibbs energy change for spontaneous and non-spontaneous processes, criteria for equilibrium.
Second law of thermodynamics, third law of thermodynamics (Brief introduction).

## Unit-VII Equilibrium

Equilibrium in physical and chemical processes, dynamic nature of equilibrium, law of mass action, equilibrium constant, factors affecting equilibrium - Le Chatelier's principle; ionic equilibrium ionization of acids and bases, strong and weak electrolytes, degree of ionization, ionization of polybasic acids, acid strength, concept of pH , Henderson Equation. Hydrolysis of salts (elementary idea). Buffer solutions, solubility product, common ion effect (with illustrative examples).

## Unit-VIII Redox Reactions

Concept of oxidation and reduction, redox reactions, oxidation number, balancing redox reactions in terms of loss and gain of electrons and change in oxidation number, application of redox reaction.

## Unit-IX Hydrogen

Position of hydrogen in periodic table, occurrence, isotopes, preparation, properties and uses of hydrogen; hydrides - ionic, covalent and interstitial; physical and chemical properties of water, heavy water; hydrogen peroxide-preparation, reactions, structure and use; hydrogen as a fuel.

## Unit-X S Block Elements (Alkali and Alkaline earth metals)

Group 1 and Group 2 elements
General introduction, electronic configuration, occurrence, anomalous properties of the first element of each group, diagonal relationship, trends in the variation of properties (such as ionization enthalpy, atomic and ionic radii), trends in chemical reactivity with oxygen, water, hydrogen and halogens; uses.
Preparation and properties of some important compounds :
Sodium carbonate, sodium chloride sodium hydroxide and sodium hydrogen carbonate, biological importance of sodium and potassium.
$\mathrm{CaO}, \mathrm{CaCO}_{3}$ and industrial use of lime and limestone, biological importance of Mg and Ca .

## Unit-XI Some p-Block Elements, General introduction to p-Block Elements

Group 13 elements: General introduction, electronic configurations, occurrence. Variation of properties, oxidation states, trends in chemical reactivity, anomalous properties of first element of the group; Boron- physical and chemical properties, some important compounds: borax, boric acid, boron hydrides. Aluminium: reactions with acids and alkalies and uses.
Group 14 elements : General introduction, electronic configurations, occurrence, variation of properties, oxidation states, trends in chemical reactivity, anomalous behaviour of first element, Carbon - catenation, allotropic forms, physical and chemical properties; uses of some important compounds: oxides.
Important compounds of silicon and a few uses: silicon tetrachloride silicones, silicates and Zeolites, their uses.

## Unit-XII Organic Chemistry Some Basic Principles and Techniques

General introduction, methods of purification, qualitative and quantitative analysis, classification and IUPAC nomenclature of organic compounds. Electronic displacements in a covalent bond:- inductive effect, electromeric effect, resonance and hyper conjugation. Homolytic and heterolytic fission of a covalent bond: free radicals, carbocations, carboanion; electrophiles and nucleophiles, types of organic reactions

## Unit-XIII Hydrocarbons

## Classification of hydrocarbons

## Aliphatic Hydrocarbon

Alkanes Nomenclature isomerism, conformations (ethane only), physical properties, chemical reactions including, free radical mechanism of halogenation, combustion and pyrolysis.
Alkenes - Nomenclature, structure of double bond (ethene) geometrical isomerism, physical properties, methods of preparation; chemical reactions: addition of hydrogen, halogen, water, hydrogen halides (Markovnikov's addition and peroxide effect), ozonolysis, oxidation, mechanism of electrophilic addition.
Alkynes - Nomenclature, structure of triple bond (ethyne), physical properties.
Methods of preparation, chemical reactions: acidic character of alkynes, addition reaction of - hydrogen, halogens, hydrogen halides and water.
Aromatic hydrocarbons: Introduction, IUPAC nomenclature: Benzene; resonance aromaticity: chemical properties: mechanism of electrophilic substitution. - nitration sulphonation, halogenation, Friedel Craft's alkylation and acylation: directive influence of functional group in mono-substituted benzene; carcinogenicity and toxicity.

## Unit-XIV Environmental Chemistry

Environmental pollution - air, water and soil pollution, chemical reactions in atmosphere, smog, major atmospheric pollutants; acid rain, ozone and its reactions, effects of depletion of ozone layer; greenhouse effect and global warming - pollution due to industrial wastes: green chemistry as an alternative tool for reducing pollution, strategy for control of environmental pollution.

## STRUCTURE OF QUESTION PAPER (PRACTICAL)

## Time: $3.00 \mathbf{h r s}$.

1. Volumetric Analysis 20
2. Salt Analysis 05
3. Content based experiment 05
4. Class record and Viva 04

Total Marks 20

## PRACTICAL SYLLABUS

Micro Chemical Methods are available for several of the practical experiments where ever possible such techniques should be used.
A. Basic Laboratory Techniques
a. Cutting glass tube and glass rod
b. Bending a glass tube
c. Drawing out a glass jet
d. Boring a cork
B. Experiments related to $\mathbf{p H}$ change
a. Anyone of the following experiments:

- Determination of pH of some solutions obtained from fruit juices, solution of known and varied concentrations of acids, bases and salts using pH paper or universal indicator.
- Comparing the pH of solutions of strong and weak acid of same concentration.
- Study the pH change in the titration of a strong base using Universal indicator.
b. Study of pH change by common-ion effect in case of weak acids and weak bases.
C. Gualitative Analysis

Determination of one anion and one cation in a given salt
Cations- $\mathrm{Pb}^{2+}, \mathrm{Cu}^{+2}, \mathrm{As}^{3+}, \mathrm{Al}^{3+}, \mathrm{Fe}^{3+}, \mathrm{Mn}^{2+}, \mathrm{Ni}^{2+}, \mathrm{Zn}^{2+}, \mathrm{Co}^{2+} \mathrm{Ca}^{2+}, \mathrm{Sr}^{2+}, \mathrm{Ba}^{2+}, \mathrm{Mg}^{2+}, \mathrm{NH}_{4}^{+}$
Anions- $\mathrm{CO}_{3}{ }^{2-}, \mathrm{S}^{2-}, \mathrm{SO}_{3}{ }^{2-}, \mathrm{SO}_{4}{ }^{2-}, \mathrm{NO}_{2}{ }^{-}, \mathrm{NO}_{3}^{-}, \mathrm{Cl}^{-}, \mathrm{Br}^{-}, \mathrm{I}^{-}, \mathrm{PO}_{4}{ }^{3-}, \mathrm{C}_{2} \mathrm{O}_{4}{ }^{2-}, \mathrm{CH}_{3} \mathrm{COO}^{-}$

## (Note: insoluble salts excluded)

D. Detection of nitrogen, sulphur, chlorine in organic compounds.

PROJECTS

- Investigation of foaming capacity of different washing soaps and the effect of addition of Sodium carbonate on them.
- Study of the acidity of different samples of the tea leaves.
- Determination of the rate of evaporation of different liquids.
- Study of the effect of acids and bases on the tensile strength of fibers.
- Analysis of fruit and vegetable juices for their acidity.

Note: Any other investigatory project, which involves about 10 period of work can be chosen with the approval of the teacher.
A. Characterization and purification of chemical substances

1. Determination of melting point of an organic compound
2. Determination of boiling point of an organic compound
3. Crystallization of impure sample of anyone of the following: Alum, copper sulphate, Benzoic acid.

## B. Chemical Equilibrium

One of the following experiments:
a) Study the shift in equilibrium between ferric ions and thiocyanate ions by increasing/decreasing the concentration of either ions.
b) Study the shift in equilibrium between $\left[\mathrm{Co}\left(\mathrm{H}_{2} \mathrm{O}\right)_{6}\right]^{2+}$ and chloride ions by changing he concentration of either of the ions.

## C. Quantitative Estimation

- Using a chemical balance.
- Preparation of standard solution of oxalic acid.
- Determination of strength of a given solution of sodium hydroxide by titrating it against standard solution of oxalic acid.
- Preparation of standard solution of sodium carbonate.
- Determination of strength of a given solution of hydrochloric acid by titrating it against standard sodium carbonate solution.


## PROJECT

## Scientific Investigations involving A few suggested Projects

- Checking the bacterial contamination in drinking water by testing sulphide ion. Study of the methods of p.
- Testing the hardness, presence of iron floride, chloride etc. depending upon the regional variation in drinking water and the study of causes of presence of these ions above permissible limit (if any).
- Study the method of purification of water.


# मूटी－fाभभगुदीं <br> वभठमीभभल भr्ठट／Commercial Art 

मभां ： 8 ひీटे
 भீवरं टी हंड：－

| यूजठी यूtur | $=70$ भुव |
| :---: | :---: |
| मी． $\mathrm{Af.Ct}$ | $=30$ riव |
| वॅल भr | $=100$ भंब |
| यग्म भृव | $=33$ भंव |


| परिए口 पेบठ（डग्ठ－I） | मभां： 4 ひ̛टे | मैल़र：मटेठ |
| :---: | :---: | :---: |
| ट्डत्तr पेบठ（डग्ठ－II） | मभां： 4 ひ̛टे | Аैमूत：म्रTभ |

भंव： 30

## ऐ－भr्छिट इीक्षर्टिरिता（Layout Designing）


सिटें ：－ती भर्गटिभ గ్으，ávwgq｀m，WELCOME

मीछीभभ ：－Чैमटठ वलठ।

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बग्व - II
भंव ： 30
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## ひैमटठ घट्छिटे（Poster Making）


सिदें－चॅउ लेपष्ट णण（Red Label Tea）
लवम मיघट（LUX SOAP）


मैम्नగल वீभ
 भुल्लांबट वीउा साल्टेठा। गठ वला विडी सा $1 / 2$ भंव चेटेगा।

पूम्नठ पॅउठ टी త్ తु－ठेषा（Structure of Question Paper）
वभठम्नीभக भागट（Commercial Art）
मभं ： 8 巛ீटे
वَल ： 100 भீव
भंवां टी हंड

| पूजठी पूtur | ： 70 भீव |
| :---: | :---: |
| मी．मी．टी． | ： 30 भீव |
| वَल | ： 100 भீव |
| यग्म भुव | ： 33 भुव |












## डग्ग-III

## भैमृतळ वै





Time: 3 Hrs.
Theory: $\mathbf{3 0}$ Marks
Practical: 40 Marks
CCE: 30 Marks
Total: 100 Marks
STRUCTURE OF GUESTION PAPER (THEORY)

1. The question paper will comprise of 14 questions in total.
2. All questions will be compulsory to attempt.
3. The question paper will consist of three parts.

Part-I will consist of eight (8) objective type questions (Q. no. 1 to 8) carrying one mark each. The answer of each question should not exceed more than one sentence.
$8 \times 1=8$ Marks
Part-II will consist of four (4) short answer type questions (Q. no. 9 to 12) carrying three (3) marks each. The answer of each question should be given in 10 to 15 lines. $4 \times 3=12$ Marks
Part-III will consist of two (2) essay type questions (Q. no. 13 to 14) with internal choice from both parts- A and B parts of the syllabus. These questions will carry 5 marks each and their answer should not exceed more than two pages of the answer sheet.
$2 \times 5=10$ Marks
SECTIONWISE DISTRIBUTION OF GUESTIONS AND MARKS

| Type of Guestion | Marks of <br> per <br> Question | No. of <br> Questions |  | Section-wise Distribution of <br> Questions |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Total <br> Marks |  |  |  |  |  |
| Objective Type <br> question | 1 | 8 | 4 | 4 | 8 |
| Short Answer Type <br> question | 3 | 4 | 2 | 2 | 12 |
| Essay Type <br> question | 5 | 2 | 1 | 1 | 10 |
| Total Questions |  | 14 | 7 | 7 | 30 |

## SYLLABUS <br> PART-A

I. Definition of dance, its importance in human life.
II. Knowledge of basic technical terms used in Kathak dance such as Theka, Laya, Taal, Tatkar, That, Amad, Salami, Tihai.
III. Critical study of Natya and Naritya.
IV. Comparative study of the folk and classical dance.
V. Knowledge of the following:

Asnyukta hast Mudras, their function in dance-Pataka, Tripataka, Ardhapataka, Mayur, Ardhachandra, Ara Shuktund, Mushti, Shikhar, Kapittha Rallamukh, Suchi, Chander kala, Padma Kosh, Sarpshrish.
VI. Short account of Raags and their importance in dance.
VII. Short history of Kathak-dance.
VIII. Survey and essential characteristics of Kathak dance.

## PART-B

I. Definition and description of prescribed Taals.
II. Recognition of Taals through some Bols.
III. Notation of all material prescribed in practical course.
IV. Notation of prescribed Taals in single, Dugun and Chougun Laykaries.

## PAPER-B

PRACTICAL (DANCE)
STRUCTURE OF QUESTION PAPER

1. A systematic dance performance in any Taal from the prescribed syllabus as per choice of the student. It will be for 6 minutes and shall carry 10 marks.
2. A systematic dance performance in any Taal from the prescribed syllabus as per choice of the examiner. It will be for 4 minutes and shall carry 10 marks.
3. Demonstration/performance of any Taal in Ekgun and Dugun layakaries. It will be for 4 minutes and carry 10 marks.
4. Student will be given some bols of the prescribed Taals $\mathrm{He} / \mathrm{She}$ will have to recognise two out of these. It will be for 2 minutes and will carry 5 marks.
5. Demonstration /performance of any two Gat nikas and palta of Tatkar. It will be for 4 minutes and carry 5 marks.

## SYLLABUS (PRACTICAL)

I. Systematic dance performance of the following Taals on the material given below:-
A) Teen Taal : (16 Matras)

One Thaat
One Amad
One Salami
Two Toras
One Kavit
One Tihai
One Paran Two Paltas
B) Taal Rupak (7 Matras)

One Thaat
One Amad
One Salami
One Tihai
One Tukra One Paltai
II. Advance Tatkar in single, Dugun and Chougun Laykaries in the Teen Taal, Rupak Taal.
III. Two Gat nikas in Teen Taal.
IV. Description of Dadra and Kehrva Taals.

Recognition of prescribed Taals through some Bol

# Class-XI DEFENCE STUDIES 

Time : 3 Hours
Theory : 50 Marks
Practical : 20 Marks
CCE : 30 Marks
Total : $\mathbf{1 0 0}$ Marks

## STRUCTURE OF QUESTIONS PAPER (THEORY)

1. There will be 12 Questions in all.
2. All questions are compulsory.
3. There will be 5 questions of one Mark each $\&$ these questions will be objective type. $5 \times 1=5$
4. There will be 5 questions of 5 Marks each. $5 \times 5=25$
5. There will be 2 questions of 10 Marks each with internal choice. $2 \times 10=20$

## SYLLABUS

1. Definition and scope of Defence Studies, its relationship with other social and Physical Sciences.
2. Warfare: Evolution of warfare since primitive time to modern times. Definition and concepts of war, origin of war, Feudal war, Dynastic war, People's war, Modern war.
3. (a) Give Strategic importance of following places:
(i) Suez-canal
(ii) Panama Canal
(iii) Straits of Malacca
(iv) Korakoram-Sinking Highway.
(v) Laddakh.
(vi) Kathmandu.
(vii) Kodari Highway.
(viii) Chumbi Valley.
(b) Defence Potential of India:
(i) Strategic location frontiers of India;
(ii) Boundaries;
(iii) India's strategic Mineral Commodities;
(iv) Industrial potentials, transport and communication in India;

Physical and Cultural factors determining the defence potential.
4. Psychological Aspects of War:-
(i) Morale: Concept and definition, factors, controlling to morale and importance of morale.
(ii) Discipline: Definition, importance factors contributing to discipline, relation of discipline to morale.
(iii) Leadership: Definition, Importance, Types and Qualities of leadership.
(iv) Fear and Panic: Causes and effects of fear and panic, methods of recovery from fear and panic.
(v) Man Management: What is man management and its purpose.

## PAPER-II <br> VIVA-VOCE

Note: The students will give a lecture in presence of audience for 5-10 minutes on the topic of his own choice out of the topics given in the syllabus.

1. Lecture: Each student will be required to give a talk (and not paper reading) for 5-10 minutes on any one of the under-mentioned topic:

| (i) Suez Canal | (ii) $\quad$ Geo-strategic location of India (iii) Modern War |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| (iv) Morale | (v) Defence | Studies | (vi) Korakoram-Sinking Highway |  |
| (vii) Leadership |  |  |  |  |

2. Interview: The examiner may ask the candidate any question from topic mentioned in the list of topics for lecture.

# मूटेटी－fाभभग्ठदीं <br> 31．उठग्टिता भडे fिॅउठवला／Drawing and Painting 

मभं ： 8 ひ̛टे
वॅल भீव ： 100
 भंवरं टी हंड：－

| पूजगी पूীषिभr | ： 70 भुव |
| :---: | :---: |
| मी． $\mathrm{Bf} . \mathrm{Cl}$ ． | ： 30 भुव |
| वॅ¢ | ： 100 भீव |
| यग्म भृव | ： 33 भீव |


| परगக口 पेथठ（डग्गा－I） | मभां： 4 ひ̛टे | नैम्सగ：मटेठ |
| :---: | :---: | :---: |
| ट्डक्ञा पेपठ（डगठा－II） | मभां： 4 ひ̛टे | नैमूर：म्रग्भ |

डगठ－I
भंव ： 30

## ढठीनैंड मुउंडठ मये－यूठटाट्हा भडे हीक्षाप्टीठ（Free Hand Self Expression and Design）


דiं

## पठडी सिस्मि निॅडठठ（Landscape Painting）

 उिभाग वठरे।

मीइीभभ ：－थेमटल्ल，पा्टी टा्ले वंठा भठे उेल्ल टाल्ले वृठा

## कां

## ठीक्ञाप्टत（Design）




ऊंट ：मित．ढ या्टी हाल्ल वंग।

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                डग्ठ - II
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भீव： 30

## भाइக उठर्टिता（Still Life）


 डे पठ्ठर्मिभा（Light and Shade）सिधा्टी साग्टे।

भर्गयभभ－पैठमिल वंठा，पेमटष्ल वंठा，या्टी ट्ले वंठा，उेष्ल टा्ले वंठा।

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डगत - III
भंव ： 10
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## मैम्नळக वृंभ

 $1 / 2$ भंव गेटेगा।


# यूम्नठ पॅउठ सी ब़थ－ठेषा（Structure of Question Paper） <br> उठग्टिता भडे fिॅउउवल्ण（Drawing and Painting） 

भभां ： 8 ひ̛टे
वृल्ड ： 100 भंव

## भवरं टी हंछ

| पूजठी यूী氏位 | ： 70 भீव |
| :---: | :---: |
| मी．मी． Cl ． | ： 30 भुव |
| वॅल | ： 100 भீव |
| य＇्म भिव | ： 33 भீव |

उग्ठ－I

भंव ： 30


 मटेठ से मैग़र हिॅछ नैट वीउा साट्टेठा।


उग्ता－II
भंव ： 30



 टिसिभाग्वपी గ़ भाइत्ल भमग्ती ठाल सिष्ट्टी से मवे।


बाठ－III
भंव ： 10



## भंबं टी हंउ：

|  | ： 8 भुव |
| :---: | :---: |
| पूउग्ड | ： 8 भुव |
| ठीव इगर्गटिठ | 8 भீव |
| गंगा जक्तर | ： 6 भुव |
| वॅल भr | ： 30 r户口 |

## 

| घटाट्ट | ： 10 भुव |
| :---: | :---: |
| मฑّष पूउग्ड | 6 भुव |
| ठीव इगर्गटिठ | 6 भ的 |
| वंठा जकता | ： 8 भra |
| वॅल भैव | ： 30 भrव |

శिभ्ञाप्टीठ (Design)
हिक्षाप्टीठ टी पिवम्टी : 8 भंब
पेपठ डे శिक्षाप्टीठ सी नैटिंता : 11 भंव
वंता जक्तर भडे पू्ठा्ट्ट : 11 भंव
वॅल भீव : 30 भुव

बत्गा-II
भाउக उउस्टिता
घटा'्दट
: 6 भीव

हिॅघ मेशी : 4 भீव
ठीव इठर्गटिंता : 8 भंव
हर्गपभा डे पूढ्गप्टिभा :6 भंव
वॅल भீव : 30 भீव

# Class-XI <br> ECONOMICS <br> (Humanities Group) 

Theory: 60 Marks<br>CCE: 30 Marks<br>Project Work : 10 Marks<br>Total: $\mathbf{1 0 0}$ Marks

## STRUCTURE OF QUESTION PAPER

1. The Question Paper will cover whole of the prescribed syllabus.
2. All Guestions will be compulsory.
3. The questions paper will comprise of 13 questions in total.
4. The question paper will have 3 Sections A, B \& C.

## SECTION A

This section will consist of Q. No. 1 which will be objective type consisting of 8 sub parts (i.e. 4 questions from Part A and 4 questions from Part B of syllabus). Each sub part carry 1 mark. Objective type questions may include questions with one word to one sentence answer/fill in the blank/true or false/multiple choice type questions.

## SECTION B

This section will consist of 8 short answer type questions (i.e. 2 questions from Part A and 6 questions from Part B of syllabus) carrying 3 marks each. Answer of each question should be given in 50-60 words. Out of 4 questions in Part-A, 1 question will be numerical.

## SECTION C

This section will consist of 4 long answer type questions (i.e. 2 questions from Part A and 2 questions from Part B of syllabus) with internal choice carrying 7 marks each. Answer of each question should be given in 200-250 words. Out of 2 questions from PartA one question will be numerical.
Note: There will be a project work of 10 marks from Unit-4 of the syllabus. The practical examination of this project work will be taken by the subject teacher.

Detail of questions set from each unit

| Syllabus | Units | $\operatorname{Sec} \mathrm{A}$ <br> 1 Mark Questions | Sec B 3 Marks Guestions | Sec C 7 Marks Guestions | To <br> tal <br> Ma <br> rks |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \hline \text { PART - A } \\ & \text { Statistics for } \\ & \text { Economics } \end{aligned}$ | $\begin{aligned} & 1 \\ & 2 \\ & 3 \end{aligned}$ | 1 1 1 1 Q. from Unit-2 and 3 | $\begin{aligned} & \overline{1} \\ & 1 \end{aligned}$ | 2 Qs. from different Units (1 theoritical 1 numerical) | 24 |
| PART - B <br> Indian <br> Economic Development | $\begin{aligned} & 5 \\ & 6 \\ & 7 \\ & 8 \end{aligned}$ | $\begin{aligned} & 1 \\ & 1 \\ & 1 \\ & 1 \end{aligned}$ | $\begin{gathered} 1 \\ 1 \\ 2 \\ 1 \\ \text { 1 Q. from Unit- } \\ 5,6 \& 8 \end{gathered}$ | 2 Qs. from any <br> 2 Units (1 G . <br> each Unit) <br> with 2 Qs. <br> From other 2 <br> Units (1 Q. <br> each Unit) as <br> internal choice | 36 |
| Total | 7 | 8 | 8 | 4 | 60 |
| SYLLABUSPART-ATISTICS FOR ECONOMICS |  |  |  |  |  |

## UNIT-1. INTRODUCTION

Statistics : Meaning, Scope and Importance of Statistics in Economics.

## UNIT-2. COLLECTION AND ORGANIZATION OF DATA

a) Collection of Data:

Sources of Data-Primary and Secondary; Methods of Collecting Data; Important Sources of Secondary Data, Census of India and National Sample Survey Organization.
b) Organization of Data:

Presentation of Data and Diagrammatic Presentation of Data.
i. Geometric Forms (Bar-Diagrams, Pie-Diagrams)
ii. Frequency Diagrams (Histogram, Polygon and Ogive) and
iii. Arithmetic Line-Graphs (Time Series Graphs)

## Unit-3. STATISTICAL TOOS AND INTERPRETATION

a) Measures of Central Tendency

Mean (simple and weighted), Median and Mode.
b) Measures of Dispersion

Absolute Dispersion (Range, Quartile Deviation, Mean Deviation \& Standard Deviation); Relative Dispersion (Co-efficient of Quartile-Deviation, Coefficient of Mean Deviation, Co-Efficient of Variation). Lorenz Curve: Meaning and its Application.
c) Correlation:- Meaning, Scatter Diagram, Measures of Correlation-Karl Pearson's Method (two variables ungrouped data), Spearman's Rank Correlation.
d) Introduction to Index Numbers:- Meaning, Types, Wholesale Price Index, Consumer Price Index and Index of Industrial Production, Uses of Index Numbers; Inflation and Index Numbers.

## Unit-4. DEVELOPMENT PROJECTS IN ECONOMICS

The students should be encouraged to develop projects which have primary data, secondary data or both. Case studies of a few organizations may also be encouraged. Some of the examples of the projects are as follows (they are not mandatory but more suggestive).
i) A report on demographic structure of your neighbourhood/Institution.
ii) Consumer awareness amongst households.
iii) Changing prices of a few vegetables in your market.
iv) Study of a co-operative institution: Milk Co-operatives.

NOTE:- (The idea behind introducing this unit is to enable the students the ways and means by which project can be developed using the skills learned in the course. This includes all the steps involved in designing a project starting from choosing a title, exploring the information relating to the title. Collection of Primary and Secondary Data, Analysing the Data, Presentation of the project and using various statistical tools and their interpretation and conclusion.)

## PART-B

 INDIAN ECONOMIC DEVELOPMENT (Including Punjab Economy) Unit-5. DEVELOPMENT POLICIES AND EXPERIANCE (1947-90)i) A brief introduction of the state of Indian Economy on the eve of Independence.
ii) Common Goals of Five Year Plans.
iii) Agriculture: Main Features, Problems and Policies; Institutional Aspects and New Agriculture Strategy (Industrial Licensing etc.) and Foreign Trade.

## Unit-6. ECONOMIC REFORMS SINCE 1991

Liberalization, Globalization, Privatization and WTO:Their Need And Main Features
Unit-7. CURRENT CHALLENGES FACING INDIAN ECONOMY
i) Poverty-Absolute and Relative; Main Programmes for Poverty Alleviation: A critical assessment.
ii) Rural Development:
a) Rural Finance and Credit Facility, The Problem of Indebtedness.
b) Different Sources of Rural Finance, The Role of Co-operative Credit Societies, Agricultural Land Development Banks, Co-operative Banks,

NABARD, RBI and other Govt. Agencies for the Provision of Finance to the Rural People.
c) Rural Marketing Facilities:

Problem of Storage and Marketing of Agricultural Produce in the Rural Areas; Role of Regulated and Unregulated Markets; Procurement and Pricing Policies of Agricultural Produce.
iii) Status of Education, Health and Employment in India.
iv) Environment: Sustainable Economic Development, Limited Availability of Resources, Environmental Degradation.

## Unit-8. PUNJAB ECONOMY

i) Manpower and Physical Resources of Punjab.
ii) Agricultural Development of Punjab since 1966.
iii) Indùstrial Development of Punjab since 1966

Structure, Location and Industrial Policy of State Govt.
iv) Growth and Pattern of Revenue and Expenditure and Financial Position of Punjab Govt.
v) Economic Planning in Punjab: Aims, Objectives, Strategy and Performance of Planning in Punjab.

## STRUCTURE OF GUESTION PAPER

1. There will be 22 questions in all. All questions will be compulsory.
2. Question No. 1 to 10 will carry 1 mark each. Answer to each question should be in about 10-15 words.
$10 \times 1=10$
3. Question No. 11 to 15 will carry 3 marks each. Answer to each question should be in about 20-25 words.
$5 \times 3=15$
4. Question No. 16 to 20 will carry 5 marks each with $100 \%$ internal choice. Answer to each question should be in about 75-80 words.
$5 \times 5=25$
5. Question No. $21 \& 22$ will carry 10 marks each. Answer to each question should be in about 200-250 words. Three will be $100 \%$ internal choice in these questions. The paper setter should not set more than one such question from one chapter.

Unit-wise Weightage to Content

| Unit No. | Questions <br> carrying <br> 1 Mark | Questions <br> carrying <br> 3 Marks | Questions <br> carrying <br> $\mathbf{5 ~ M a r k s ~}$ | Questions <br> carrying <br> $\mathbf{1 0}$ Marks | Total |
| :--- | :---: | :---: | :---: | :---: | :---: |
| $1,2,3$, | 6 | 3 | 3 | 1 | 40 Marks |
| 4.5 | 4 | 2 | 2 | 1 | 30 Marks |
| Total questions $\mid$ | 10 | 5 | 5 | 2 | 22 Questions |
| Total marks | 10 | 15 | 25 | 20 | 70 Marks |

## SYLLABUS

## Principles of Education

Unit-I Meaning and concept of Education. Needs for Education.
Unit-II Aims of Education: Industrial aim, Social aim, Vocational aim and Cultural aim.
Unit-III Curriculum its meaning and importance, Defects in the Traditional Curriculum. Co-curricular activities and their importance in Education.
Unit-IV Agencies of Education-Home, School, Community.
Unit-V Organisations of Education: Directorate of Education-D.P.I. and State Board of education.
Unit-VI Problems of Education:- Adult Education, Environment Education, Population Education, Women Education, Special Education

Class-XI
43. ELEMENTS OF ELECTRONIC ENGINEERING

Theory: 30 Marks Practical: $\mathbf{4 0}$ Marks CCE: 30 Marks
Theory
Total: 100 Marks

## Structure of Question Paper

In all, sixteen questions will be set from the prescribed syllabus. The question paper will comprise of three parts (Part-I, Part-II and Part-III). The questions will be evenly distributed from the prescribed syllabus.

Part-I will consist of Five objective type questions carrying 1 mark each. All questions will be compulsory to attempt. The answer of each question should not exceed more than one sentence.

Part-II will consist of seven short answer type questions carrying 3 marks each. Candidate will attempt any five questions out of these. A question may have two or more parts. The answer of each question should not be more than one page of the answer sheet.

Part-III will consist of four questions carrying 5 marks each. Candidate will attempt any two question out of these. The answer of each question should not be more than Two pages of the answer sheet.

## SYLLABUS

1. Introduction to semi-conductors and their symbolic representation.
2. Introduction to integrated circuits.
3. Advantages and limitations of integrated circuits.
4. Introduction to monolithic, Photography, Film Technology.
5. Introduction to Electronic Components.
(i) Resistors
(ii) Capacitors
(iii) Transistors
(iv) Diodes
(v) Coils
(vi) Transformers
(vii) IFT's
(viii) P.C.B's
6. Introduction to Digital Electronics
(i) Number system, their conversion
(ii) Basic Boolean Algebra
(iii) Basic, Logic, circuits and their symbols. OR, AND, NOT, NAND, NOR, EX-OR.
7. Introduction to Computer and Microporcessor
8. Introduction to TV Receivers and Transmitters.
9. Fundamentals of measuring instruments.
(i) Voltmeter
(ii) Ammeter
(iii) Multimeter
(iv) Oscilloscopes.

## PRACTICAL

## STRUCTURE OF QUESTION PAPER

## Max: 40 Marks

Time: $\mathbf{3 H r s}$
The description of Marks will be as follows:
Viva -Voce
5 Marks
3. Actual Performance

5 Marks
(a)

Major Practical: The examiner shall set any three practicals frome The examiner will ask the student The candidate shall choose any two from these. The examiner will ask 20 Marks to perform any one from the two chosen by him.

Classification, description and use of soldering iron, soldering and desoldering. Do's and Don'ts.
Assembly of the power supply (i) Full wave rectification (ii) Using I.C. 723
Assembly of regulated power supply (i) Full wave (ii) using I.C. 723.
Verification of Ohm's law. Kirchoff law.
Assembly of various projects from I.C. 555
Assembling an amplifier, oscillator and Radio receiver using Transistors and I.C.
6. Assembling an amplifier,

OR
AND
NOT
NAND
NOR
EX OR
Measurements of A.C.; D.C. Current using voltmeter, ammeter and multimeter.
9. Use of computer and microprocessor.

# CLASS-XI <br> ENGLISH ELECTIVE STRUCTURE OF GUESTION PAPER 

Theory: 70 marks
CCE: 30 marks
Total: 100 marks

Part-A
Objective type question No. 1 will be compulsory
(16 marks)

- It will carry 16 marks and consist of 16 questions of 1 mark each. Objective type question will cover the whole syllabus
APPLIED GRAMMAR ..... 10
I Do as directed type question covering the following items:
(i) Voice ..... 2
(ii) Narration ..... 2
(iii) Use of words as a noun, a verb or an adjective/an adverb in a sentence (Only one word) ..... 1
(iv) Combining two sentences with appropriate linkers. ..... 1
(v) Fill in the blank with a suitable preposition or a determiner. ..... 1
(vii) Various concepts ..... 1
(viii) Transformation of sentences ..... 2
Note: Question paper should be based on the exercises given in the prescribed book of grammar (A Practice book of English grammar for class XI)
6 questions: 2 from each text-book will be asked ..... 6

1. English Reader Book-V ..... 2
2. Selections from English Verse ..... 2
3. A Book of Essays and Stories ..... 2
PART-B (ENGLISH READER BOOK-V) (15 marks)
Text for detailed study
II. (a) Comprehension of a passage
Comprehension is to be tested with the help of the following techniques:
(i) Who spoke/wrote these words to whom/about whom/name of the chapterand the author
(ii) Short - answer type questions
(iii) Matching exercise
(iv) Fill in the blanks
(v) Meanings of difficult words in simple English ..... 10
(b) One essay type question in about 100 words such as character- sketch, incident, episode etc. ..... 5
Part -C (SELECTIONS FROM ENGLISH VERSE)
Text for detailed study ..... (8 marks)
III. (a) Explanation with Reference to the Context( One out two stanzas) ..... 5
(b) Central idea of a poem ..... 3
Part-D (A BOOK OF ESSAYS AND STORIES) (10 marks)
Text for detailed studyIV. (a) Short answer type questions from different lessons (three out of five)$3 \times 2=6$
(b) One essay type question on incident/episode/character-sketch/theme etc. 4
PART-E (COMPOSITION)
(21 marks)
V Application/Letter10
VI Essay (One out of three) ..... 7
VII Translation from English into Vernacular ..... 4(A running passage of 4 sentences only)

Note: A special question in lieu of translation for foreign students: A paragraph to be developed through a given situation/outline.

## SYLLABUS

## Book-I English Reader Book V

1. The Young Akbar
2. The Story of Sri Rama's Exile
3. The Discovery of Penicillin
4. The Story of Michael
5. Guru Gobind Singh
6. Sohrab and Rustam-I
7. Sohrab and Rustam-II
8. A Modern Miracle
9. About Hassan and his Wife
10. A Spark Neglected Burns the House-I
11. A Spark Neglected Burns the House II

## Book-II Selections From English Verse

1. The Way of Poetry - William Blake
2. Going Downhill on a Bicycle - H.C. Beeching
3. My Native Land - Walter Scott
4. The Snake - Emily Dickinson
5. Abou Ben Adhem - Leigh Hunt
6. The Patriot - Robert Browning
7. The Brook - Alfred Lord Tennyson
8. Casabianca - Mrs Hemans
9. Robin Hood and Alan-A-Dale (Anonymous)
10. Elegy on the Death of a Mad Dog - Oliver Goldsmith
11. We are Seven - William Wordsworth
12. Lady Clare - Alfred Lord Tennyson
13. The Charge of the Light Brigade - Alfred Lord Tennyson

## Book-III A Book of Essays and Stories

1. The Real Princess
2. Gulliver in Lilliput
3. A Street Scene
4. Build Yourself for Leadership
5. Controlling the Mind
6. Three Questions
7. The Cabuliwallah
8. The Emperor's New Clothes
9. Gandhi's Appeal
10. The Judgement Seat of Vikramaditya
11. The Black Cat
12. The Happy Prince
13. The Bet

## APPLIED GRAMMAR

1. Sentences:
(a) Kinds of sentences: simplex, complex, compound
(b) Forms of sentences: declarative, imperative, interrogative, exclamatory
(c) Transformation of sentences: from simple to complex, exclamatory to declarative and vice-versa
2. Clauses:
(a) Kinds of clauses: principal, co-ordinate and subordinate
(b) Use of conditional clauses and relative clauses
3. Phrases: The Noun Phrase
(a) Noun:
4. Countable and uncountable
5. Singular and Plural
(b) Pronouns:
6. Number
7. Gender
8. Person

Article and other determiners: Their sequence in the Noun phrase.
4. The Verb Phrase:
(a) The helping verbs
(b) The main verbs and the linking verbs
(c) Transitive and Intransitive verbs
(d) Verbs followed by different grammatical units examples preposition, pronoun, that clause etc.
(e) Tense
(f) Sequence of tenses
(g) Use of correct form of verbs in given sentences

## 5. Prepositional Phrase:

(a) Preposition and noun that go together
(b) Preposition and verb
(c) Preposition and adjective
(d) Use or omission of preposition
6. Adjectives
7. Adverbs
8. Words:
(a) Recognition of different parts of speech
(b) Change of words from one part of speech into another
(c) Use of words as different parts of speech
9. Voice: Change of sentences from Active to Passive and vice versa
10. Narration
(a) All forms of sentences including short dialogues
(b) Change of sentences from Direct to Indirect and vice versa
11. Short responses:

Short responses to Yes/No questions as in everyday use
12. Various concepts:

How various concepts are expressed e.g request, wish, obligation, permission, determination, possibility etc.

## Composition

1. Translation from English into Vernacular
2. Application
3. Letter
4. Essay

Note: A special question in lieu of translation for foreign students. A paragraph to be developed through a given situation/outline.
Books Prescribed \& Published by the Punjab School Education Board.

1. English Reader Book-V
2. A Book of Essays and Stories
3. Selections from English Verse
4. A Practice Book of English Grammar

# ENVIRONMENT EDUCATION 

## ENVIRONMENTAL EDUCATION Annual Examination 2012-13 <br> CLASS - XI

Time: 2 Hrs
Theory Marks: 35
CCE : 15
Total Marks : 50

## Theory <br> Structure of Question paper

1. There will be one theory paper comprising of 16 questions. All questions will be compulsory.
2. Question No. 1-5 are very short answer type questions carrying 1 mark each. Answer to each question will be in one line or few words only.
3. Question No. 6-10 are short answer type questions carrying 2 marks each. Answer to each question will be in 20-30 words.
4. Question No. 11-15 are short answer type questions carrying 3 marks each. Answer to each question will be in 40-50 words.
5. question No. 16 is long answer type question carrying 5 marks. Answer to this question will be in $80-100$ words.
6. In Question No 16 , there will be $100 \%$ internal choice.
7. There will be no objective type question like yes/No, tick/cross, fill in the blanks, multiple choice, true/false etc.
8. The Question paper should be strictly from the prescribed syllabus based on above mentioned guidelines.
unit wise distribution of marks.

| Unit | Marks |
| :--- | :--- |
| Unit I Man and Environment | 7 - Marks |
| Unit II Environment and Development | 7 - Marks |
| Unit III Environment Pollution of Global issues | 8 - Marks |
| Unit VI Energy | 8 - Marks |
| Unit V Safe work Environment and Occupational | 5 - Marks |
| $\quad$ Hazards |  |

## Unit -1 Man and Environment

1. Environment

- Dimensions of Environment-physical, biological and social .
- Human being as rational and social partner in environmental actions.
- Society and environment in India: Indian traditions, customs and culture in past and present.

2. Population and environment

- Demography, causes of increase in population and its ill effects on environment, urbanization.

3. Impact of human activities on environment

- Environmental problems of urban and rural areas.
- Natural resources and their depletion
- Stress on civic amenities, supply of water and electricity, wast disposal, transport, health services.
- Vehicular emissions.
- Urbanisation-land use, housing, migrating and floating population.


## Unit-II Environment and Development

4. Economic and Social Development

- Economic and social needs as basic considerations for development.
- Agriculture and industry as major sector of development.
- Social factors affecting development-poverty, affluence, education, employment, child marriage and child labour, human health-HIV/AIDS ,social culture and ethical values.

5. Impact of Liberalization and Globalization

- Impact of liberalization and globalization- agriculture and industries, dislocation of manpower and unemployment implications for social harmony.

6. Role of Society in Development and environment

- Role of society in development and environment-public awareness through education, eco-clubs, population education programmes and campaigns, public participation in decisionmaking.


## Unit-III Environmental Pollution and Global Issues

## 7. Environmental Pollution

- Air water (fresh and marine), soil pollution-sources and consequences.
- Noise and radiation pollution-sources and consequences.
- Solid, liquid and gaseous pollution


## 8. Pollution and Diseases

- Handling of hazardous material, process and management of hazardous wastes.
- Pollution related diseases.
- Strategies for reducing pollution and improving the environment.

9. Global Issues and Improvement of Environment

- Ozone Layer depletion and its effects.
- Greenhouse effect, global warming, climate changes and their effects on human society, agriculture, plants and animals.


## 10. Disaster

- Disaster-natural (earthquakes, droughts, floods, cyclones, landslides) and man made (technological and industrial), their impact on the environment, prevention, control and mitigation.


## Unit -IV Energy

## 11. Energy Consumption

- Changing global pattern of energy consumption-from ancient to modern times.
- Energy consumption as a measure of quality of life.
- Rising demand for energy gap between demand and supply (Indian context).


## 12. Conventional Sources of Energy.

- Conventional energy sources-fossil fuels and firewood, potential (Indian context) and limitations of each source, methods of harnessing energy and environment consequences of their use.

13. Non-Conventional Source of Energy

- Non-conventional energy sources-type of non-conventional sources (bio-mass, solar, wind, ocean, hydel, geothermal, nuclear), potential (Indian context) and limitations of each source, methods of harnessing and their environmental consequences, need to promote non-conventional energy sources.


## 14. Conservation of Energy

- Conservation of energy sources-efficiency in production, transportation and utilization of energy.
- Future sources of energy-hydrogen, alcohol, fuel cells.


## Unit-V Safe Work Environment and Occupational Hazards

## 15. Safe Work Environment

- Safe work environment-adequate light, ventilation, cleanliness, good house keeping


## 16. Safety Laws, Accidents and First-Aid

- Safety awareness management-safety precautions-home and work (laboratory, workshop, work site), safe handling of equipment and material.
- Occupational hazards-physical, chemical, mechanical, electrical, biological, radiational and psychological.
- Accidents and major hazards in industries and occupations-fire, explosion, toxic release.
- First aid measures.
- Laws and regulations related to occupational health and safety.


## CCE

## Instructions for CEE ( 15 marks)

Teachers teaching the subject of Environment Education to students, will evaluate them throughout the year for the work done by the student in and around the school campus regarding environment cleanliness, planting trees, developing herbal gardens, growing ornamental plants,medicinal plants and participating in environment activities which are celebrated in the school. Student will also keep the record in a project file for two different projects carried by him/her. Each project will carry $7 \frac{1}{2}$ marks. So over all evaluation of the student will be based on his/ her performance and contribution to environment.

Time : $\mathbf{3} \mathbf{h r s}$.
Theory: 50 Marks
Practical: $\mathbf{2 0}$ Marks
CCE: 30 Marks
Total: 100 Marks

## STRUCTURE OF QUESTION PAPER (THEORY)

1. There will be one theory paper comprising of 23 questions. All questions will be compulsory.
2. Marks for each question are indicated against it.
3. Question Nos. 1-10 are objective type questions carrying 1 mark each. Answer to each question will be in one line or few words only.
4. Guestion Nos. 11-15 are very short answer type questions carrying 2 marks each. Answer to each question will be in 20-30 words.
5. Question Nos. 16-20 are short answer type questions carrying 3 marks each. Answer to each question will be in 80-100 words.
6. Question Nos. 21-23 are long answer type questions carrying 5 marks each. There will be $100 \%$ internal choice.
7. There will be no objective type questions such as yes/no, tick/cross, fill in the blanks, multiple choice, true/false etc.
8. The question paper should be strictly from the prescribed syllabus subject to the above mentioned guidelines.
9. Candidates will be provided with one answer book of 32 pages only. No extra/continuation sheet will be provided.

## (PRACTICAL)

## Tme : 3 Hours

Marks: 20
The examiner will set the question paper on the spot. The distribution of marks in the paper will be as follows:

1. At least 8 minerals will be given to the students for identification. Students are required to attempt/identify 4 minerals out of these. The question will carry 4 marks.
2. 8 fossils will be given to the students for identification. Student will identify 4 fossils out of these. The question will carry 4 marks.
3. The examiner will ask the student to plot an outline map of India the distribution of deposits of any two minerals. The student will attempt any one. The question will carry 4 marks.
4. The examiner will give two geographical maps for study and for the identification of their various features. Students are required to attempt and one of these two maps. The question will carry 5 marks.
5. 3 marks are reserved for notebook and record.

A group of students for practical should not be more than 20 students.

## SYLLABUS <br> PART-A

## Geology:

Aims of Geology, historical development of Geo science, its branches and their outline.
A general outline of the following:

## The Earth:

Its setting, part of the solar system, The origin of the solar system and the earth. The earth's major features-The ocean basins, the continents, Origin of the continents and ocean basins.

## The Earth's Crust

Nature, material of the crust, minerals, classification of the some common rockforming minerals, Rocks: Igneous, sedimentary and metamorphic rocks, common primary features and structure of rocks, the phenomenon of igneous activity, volcanoes, varieties of volcanoes.

## Earthquakes

Causes of earthquake, earthquake waves. Some Indian examples. Nature of the earth's structure - the crust, the mantle and core. Summary of the physical properties of the earth's parts.

## Uniformitarianism

Principles of Stratigraphy, Geological Time-scale, Indexfossils, Correlation Homotaxis. Facies concept in stratigraphy, palaeography. Basic idea about geological maps.

## PART-B

A general outline of the following:
The Geological force: Internal forces, Earth Movement, External forces. The Hydrological cycle, weathering and erosion, formation of soils and their types and utility.
The Force of the wind: Movement of the atmosphere, wind erosion and deposition by wind.

The Ground water: Principles of ground water, origin and Occurrence/ movement of the ground water acquifers and wills, Geologic work of groundwater.
River at Work: Run off, factors controlling run off, drainage system and system patterns. Erosion and transportation by running water. Changes in river with time. River deposits. The cycle of erosion with Indian examples.
$>$ Land sculptures by glaciers. Growth and movement of glaciers; Kinds of glaciers with some Indian examples, glacier regiment and former glacier regiment and former glaciers. Geologic work of glaciers.
> Wave action and shore lines. Mechanism of wave action, geologic work of wave deposition. Shorelines and sea level.
$>$ Types of fossils, modes of preservation, uses of fossils, brief idea about important fossil groups such as branchiopods, molluscs, trilobites, graptolities, echinoderms. Some idea about plant fossils.

## PRACTICAL

(i) Identification of some important minerals like quartz, peldspars, mica, magnetite, copper ores etc. in landspecimen.
(ii) Identification of important fossils like Terebratula, Spirifer, Products Trionia, pecten, Murex, Trochus, Belemnities, Ceratities, Calymene, phacops, mono, gruptus, Microster.
(iii) Determination of specific gravity and study of rocks in land specimen. Granite, sandstone, quartzite, limestone, marble, basalt, etc. Indentification of important characters.
(iv) Study of geological map and identification of various features shown on topographical sheets and relief of oceans and continents.

# मूटी-fाभागुदीं <br>  Geometrical Perspective and Architechtural Drawing 

मभां : 4 జ์टे
बॅल : 100 भंव

## भंवां टी दंड

| सिछिठी | $=70$ rıव |
| :---: | :---: |
| मी.. . CD . | $=30$ भra |
| वॅल भुव | $=100$ rid |
| याग्म भृव | $=33$ भुव |

बग्ठ-I
भீव : 35
सिछिभैटठीवल भडे दिँस मेशी इठग्टिठा (Geometrical Perspective Drawing )

1. निछिभैटठीवल इठगिता

(1) ठेधा्टां भडे वटां मर्घयी यूम्नर।
(2) डिवटां भडे उड्रठड़तां मघंयी मंभे यूम्नर।




भंव : 8


 भंव 15





डगठ-II
भंव : 35

## भाग्वीटैवचठष उठगटिंत (Architechtural Drawing)




# यूम्नठ पॅउठ टी ब्छथ-ठेषए (Structure of Question Paper) <br>  <br> Geometrical Perspective and Architechtural Drawing 

भभां : 4 జీटे

सिधिठी : 70 भीव
मी.मी.पी. : 30 भீव
वॅल : 100 भीव

डग्ग-I भீव : 35
निछिभैटगीवळ भडे दिॅघ मेझी उठग्टिंता

भீव : 12
 भंवरं से गटगो।

 गद्येा।

## दिँघ मेशी इठगटिता

भंव : 15


## भंवं टी दंछ:-

| घटाद्दट | $=7$ भीव |
| :---: | :---: |
| ठीव fिट्डीभri भुड ठीव इठगटिंत | $=4$ भुव |
|  | $=2$ भुर |
| ठेधाप्टां | $=2$ म⿵冂 |
| वृल | $=15$ भृव |
| ड $\boldsymbol{\text { IT-II }}$ | भंब : 35 |

## भावरीटेवउठळ उगगधिंत



## भீवं टी दंड:-

| मॅघए (Elevation) | $=10$ भुव |
| :---: | :---: |
| य'्म' (Side) | $=10$ भुव |
| उल्ल (Plan) | = 10 rid |
|  | $=5$ भुव |
| वॅ"्ल | $=35$ भீव |



# Class-XI GURMAT SANGEET 

Time: 3 Hrs.
Theory: $\mathbf{3 0}$ Marks
Practical: $\mathbf{4 0}$ Marks
CCE: 30 Marks
Total: 100Marks

## STRUCTURE OF QUESTION PAPER (THEORY)

1. The question paper will comprise of 14 questions in total.
2. All questions will be compulsory to attempt.
3. The question paper will consist of three parts.

Part-I will consist of eight (8) objective type questions (Q. no. 1 to 8) carrying one mark each. The answer of each question should not exceed more than one sentence.
$8 \times 1=8$ Marks
Part-II will consist of four (4) short answer type questions (Q. no. 9 to 12) carrying three (3) marks each. The answer of each question should be given in 10 to 15 lines.

$$
4 \times 3=12 \text { Marks }
$$

Part-III will consist of two (2) essay type questions (Q. no. 13 to 14) with internal choice from both parts- A and B parts of the syllabus. These questions will carry 5 marks each and their answer should not exceed more than two pages of the answer sheet. $2 \times 5=10$ Marks

SECTIONWISE DISTRIBUTION OF GUESTIONS AND MARKS

| Type of Question | $\begin{array}{l}\text { Marks of } \\ \text { per } \\ \text { Question }\end{array}$ | $\begin{array}{l}\text { No. of } \\ \text { Questions }\end{array}$ | $\begin{array}{l}\text { Section-wise Distribution of } \\ \text { Questions }\end{array}$ |  | $\begin{array}{l}\text { Total } \\ \text { Marks }\end{array}$ |
| :--- | :--- | :--- | :--- | :--- | :---: |
|  |  |  | Section - B |  |  |$]$.

## SYLLABUS <br> PART-A <br> THEORY

1. Short Introduction of Gurmat Sangeet.
2. Introduction of instruments (Rabab and Tabla) used in Gurmat Sangeet.
3. Definitions of the following :-

Sangeet, Naad, Shruti, Swar, Saptak, Thaat, Raag, Aroh, Avroh, Alankaar, Laya (Madhya, Drut, Vilambit), Taal, Avartan, Sam or Gur, Taali, Khalli, Matra, Sathai, Antra, Taan, Vaadi, Samvadi, Anuvadi, Vivadi.
4. Life sketch and contribution towards Gurmat Sangeet of the following:
(i) Bhai Mardana
(ii) Gian Singh Abtabad
(iii) Bhai Samund Singh

## PART-B

1. Description of prescribed Raags: Bilawal, Kalyan, Asa.
2. Notations of prescribed Taals (Teen Taal, Dadra and Kehrava) Dugun and Chougun Laykaries.
3. Recognition of prescribed Raags from given Swarsangities.
4. Recognition of signs of Swar lipi of Bhatkhande.

PAPER-B
PRACTICAL (GURMAT SANGEET) STRUCTURE OF GUESTION PAPER
There should not be more than 9 (nine) students in a batch of practical examination. The question paper will set by the examiner on the spot. While setting the question paper in practical, the examiner must consider the syllabus in theory and will follow the following instructions.

1. Demonstration/performance of Shabad Gayan in any one Raag out of the prescribed syllabus. The choice of the Raag will be done by the student. It will be for 6 minutes and shall carry 10 marks.
2. Demonstration/performance of Shabad Gagyan in any one Raag out of the syllabus. The choice of the Raag will be done by the examiner. It will be for 4 minutes and will carry 10 marks.
3. Demonstration of 'Taals' in Ekgun and Dugun layakaries by hand. It will be for 4 minutes and will carry 10 marks.
4. Recognition of one Taal and one Raag out of the prescribed syllabus. It will be for 2 minutes and will carry 5 marks.
5. Demonstration regarding Alankaar/Shandha/non detailed Raags. It will also be for 4 minutes and will carry 5 marks.

## SYLLABUS (PRACTICAL)

1. Singing of Gurbani Shabad according to traditional style in prescribed Raags: Bilawal, Kalyan , Asa.
2. Five Alankars (Sargam and Aakar) in each Raag: Bilawal and Kalyan.
3. Knowledge of prescribed Taals:-

Teen Taal, Dadra and Keharva.
4. Singing of Shandha and Pauri.
5. Knowledge of non detailed raags
(i) Bharav (ii) Bhoopali in terms of Aroh, Avrohi and definition.

## मूटी-fवाभग्वुदीं

वला ET पिउिगग्म भडे यूस्समा//History and Appreciation of Art

मभां : 3 భீटे
वॅल : 100 भீव
भंवरं टी हंड:

|  | : 70 भீव |
| :---: | :---: |
| मी.मी. C . | : 30 भீव |
| वَल | 100 भुव |
| याग्म भृव | : 33 भुव |



## डग्व-I

## वला टा पिउिग्म (History of Art)


2. fिंय याप्टी सी मॅठिभठा से सिउठ।
3. मैंगभा जुॅग से चिॅडठ।
4. मिधा वला से fॅउठ।
2. ठायग्ठ वला से चै उठ।
3. गुथउवग्ल ही वल्ला

## उग्गा-II

## वला टी यूममत्रा (Appreciation of Art)

1. रला टी यठीकग्मा।
2. वला टी छुउपठी।

3. चिक्नाप्रित भने टिम टीभां विमभां


## यूग्नत पॅउठ सी ब़थ-ठेषए (Structure of Question Paper) वला टा पिडिग्म भडे यूर्मम्ना (History and Appreciation of Art)

मभां : 3 ひ̛टे

| भंवरं टी हंड |  | บग्म भீव |
| :---: | :---: | :---: |
| पिध्रिग | 70 | 23 |
| मी. $\mathrm{Al} . \mathrm{Ct}$. | 30 | 10 |
| व్ర" | 100 | 33 |




3. गठ यूम्त से 14 भंव Јटठो।



# Class-XI <br> INSURANCE <br> (Humanities Group) 

## Time - 3 Hours

Theory- 70 Marks<br>CCE- 30 Marks<br>Total: $\mathbf{1 0 0}$ Marks

## STRUCTURE OF GUESTION PAPER

1. The Question Paper will cover whole of the prescribed syllabus.
2. All Questions will be compulsory.
3. 15 Questions will be set in the Question Paper.
4. This section will consist of Q . No. 1 which will be objective type consisting of 12 sub parts. Each sub part carries 1 mark. Objective type questions may include questions with one word to one sentence answer/fill in the blank/multiple choice type questions. Question No. 2 to 11 will carry 3 marks each. The answer of each question should be given in 50-60 words.
5. Question No. 12 to 15 each with internal choice will carry 7 marks each. The answer of each question should be given in 200-250 words.

Detail of questions set from each unit

| Syllabus Units | 1 Mark Questions | 3 Marks Questions | 7 Marks Guestions |
| :---: | :---: | :---: | :---: |
| 1 | 2 | 2 | 1 |
| 2 | 2 | 2 | 1 |
| 3 a | 2 | 2 | 1 Q from Unit 3a \& 3b |
| 3 b | 2 | 1 |  |
| 4 | 2 | 2 | 1 Q from Unit $4 \& 5$ |
| 5 | 2 | 1 |  |
|  |  |  | $\mathbf{4}$ |
| Total | $\mathbf{1 2}$ | $\mathbf{1 0}$ |  |

## SYLLABUS

## Unit-1. CONCEPT OF RISK

Types of Risks, Methods of handling risk, Functions of Insurance, Scope of Insurance. History of Insurance, Indian Market Structure, Legislative Measures, Insurance Legislation and other Legislation relating to Insurance Agency, Licensing, Commission Structure, Loss Prevention; Stamp Duty.

## Unit-2. LAW OF CONTRACT

Essentials of Insurance Contracts, Validity of Contract, Basic Principles of Insurance, Utmost Good Faith, Insurable Interest, Indemnity, Subrogation, Contribution, Proximate Cause.
Unit-3. a) UNDERWRITING
New Business Procedure, Proposal from Cover Note, Certificate of Insurance, Co-Insurance; Renewal Procedure, Premium.

## b) CLAIMS

Factors to be Considered, Arbitration Procedure, Methods of Settlement. Reinsurance; Method, Application.

## Unit-4. ACCOUNTING PRACTICES

Forms of Accounts, Reserves for Unexpired Risks Practice, Statutory Returns.

## Unit-5. SALESMANSHIP

Qualities of Salesman, Technique of Selling, Method of Canvassing.

## MATHEMATICS

1. All Questions are Compulsory.
2. Q 1 will consist of eight parts and each part will carry one Mark.
3. Q 2 to Q 15 each will be of 3 Marks.
4. $\quad \mathrm{Q} 16$ to Q 19 i.e. three questions each will be of 5 marks.
5. There will be no overall choice. There will be an internal choice in any four questions of 3 marks each and two questions of 5 marks each
6. Use of Calculator is not allowed.

| $\begin{array}{\|l\|} \hline \text { Sr. } \\ \text { No } \\ \hline \end{array}$ | Topic | Q. Carrying 1-Marks | Q. Carrying 3-Marks | Q. Carrying 5-Marks | Total Marks |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Sets | - | 1 | - | 3 |
| 2 | Relations \& Functions | 1 | 1 | - | 4 |
| 3 | Trigonometric Functions | 1 | 2 | - | 7 |
| 4 | Principle of Mathematical Induction | - | 1 | - | 3 |
| 5 | Complex numbers \& Quadratic Equations | 1 | - | 1 | 6 |
| 6 | Linear Inequalities | - | - | 1 | 5 |
| 7 | Permutations \& Combinations | 1 | 1 | - | 4 |
| 8 | Binomial Theorem | - | 1 | - | 3 |
| 9 | Sequence \& Series | 1 | 1 | - | 4 |
| 10 | Straight lines | 1 | 1 | - | 4 |
| 11 | Conic Sections | 1 | 1 | - | 4 |
| 12 | Introduction to Three-dimensional Geometry | - | 1 | - | 3 |
| 13 | Limits \& Derivatives | - | 1 | 1 | 8 |
| 14 | Mathematical Reasoning | - | 1 | - | 3 |
| 15 | Statistics | - | - | 1 | 5 |
| 16 | Probability | 1 | 1 | - | 4 |
|  | Total marks | 8 | 14 | 4 | 70 |

## 1. Sets:

Sets and their representations. Empty set, Finite \& Infinite sets, Equal sets. Subsets, Subsets of the set of real numbers especially intervals (with notations).Power set. Universal set. Venn diagrams. Union and Intersection of sets. Difference of sets. Complement of a set, Properties of complement sets.

## 2. Relations \& Functions:

Ordered pairs, Cartesian product of sets. Number of elements in the Cartesian product of two finite sets. Cartesian product of the reals with itself (upto $R \times R \times R$ ).
Definition of relation, pictorial diagrams, domain, co-domain and range of a relation. Function as a special kind of relation from one set to another. Pictorial representation of a function, domain, co-domain and range of a function. Real valued function of the real variable, domain and range of these functions, constant, identity, polynomial, rational, modulus, signum and greatest integer functions with their graphs. Sum, difference, product and quotients of functions.

## 3. Trigonometric Functions:

Positive and negative angles. Measuring angles in radians and in degrees and conversion from one measure to another. Definition of trigonometric functions with the help of unit
circle. Truth of the identity $\sin ^{2} x+\cos ^{2} x=1$, for all $x$. Signs of trigonometric functions and sketch of their graphs. Expressing $\sin (x \pm y)$ and $\cos (x \pm y)$ in terms of $\sin x, \sin y, \cos x \&$ cosy. Deducing the identities like following:


Identities related to $\sin 2 x, \cos 2 x, \tan 2 x, \sin 3 x, \cos 3 x$ and $\tan 3 x$. General solution of trigonometric equations of the type $\sin \theta=\sin \alpha, \cos \theta=\cos \alpha$ and $\tan \theta=\tan \alpha$. Proofs and simple applications of sine and cosine formulae.

## 4. Principle of Mathematical Induction:

Process of the proof by induction, motivating the application of the method by looking at natural numbers as the least inductive subset of real numbers. The principle of mathematical induction and simple applications.

## 5. Complex Numbers and Quadratic Equations:

Need for complex numbers, especially $\sqrt{ }-1$, to be motivated by inability to solve every quadratic equation. Brief description of algebraic properties of complex numbers. Argand plane and polar representation of complex numbers. Statement of Fundamental Theorem of Algebra, solution of quadratic equations in the complex number system. Square-root of a Complex number.

## 6. Linear Inequalities:

Linear inequalities, Algebraic solutions of linear inequalities in one variable and their representation on the number line. Graphical solution of linear inequalities in two variables. Solution of system of linear inequalities in two variables - graphically.

## 7. Permutations \& Combinations:

Fundamental principle of counting, Factorial n(n!) Permutations and combinations, derivation of formulae and their connections, simple applications.

## 8. Binomial Theorem :

History, statement and proof of the binomial theorem for positive integral indices. Pascal's triangle, general and middle term in binomial expansion, simple applications.

## 9. Sequence and series:

Sequence and Series, Arithmetic Progression (A.P), Arithmetic Mean (A.M), Geometric Progression ( G.P), general term of a G.P, sum of $n$ terms of a G.P . Arithmetic and Geometric series, infinite G.P. and its sum. Geometric mean (G .M), relation between A.M and G.M, Sum to n term of the special series $\sum n, . \sum n^{2}$ and $\sum n^{3}$.
10. Straight Lines:

Brief recall of 2-D from earlier classes, Shifting of origin. Slope of a line and angle between two lines. Various forms of equations of a line: parallel to axes, point-slope form, slopintercept form, two-point form, intercept form and normal form , General equation of a line. Equation of family of lines passing through the point of intersection of two lines. Distance of a point from a line.

## 11. Conic Sections:

Sections of a cone ; circles, ellipse, parabola, hyperbola , a point, a straight line and a pair of intersecting lines as a degenerated case of a conic section. Standard equations and simple properties of parabola, ellipse and hyperbola. Standard equations of a circle;

## 12. Introduction to Three-dimensional Geometry:

Coordinate axes and coordinate planes in three dimensions. Coordinates of a point .Distance between two points and section formula.

## 13. Limits and Derivatives:

Derivative introduced as rate of change both as that of distance function and geometrically, intuitive idea of limit.
$\lim _{x \rightarrow 0} \frac{\log _{e}(1+x)}{x}, \lim _{x \rightarrow 0} \frac{e^{x}-1}{x}$
Definition of derivative, relate it to slope of tangent of the curve, derivative of sum, difference, product and quotient of functions. Derivatives of polynomial and trigonometric functions.

## 14. Mathematical Reasoning:

Mathematically acceptable statements. Connecting words/phrases-consolidating the understanding of "if and only if (necessary and sufficient) condition", " implies", " and/or", "implied by", "and", "or", "there exists" and their use through variety of examples related to real life and Mathematics , Validating the statements involving the connecting wordsdifference between contradiction, converse and contrapositive.

## 15. Statistics:

Measure of dispersion: mean deviation, variance and standard deviation of ungrouped/grouped data. Analysis of frequency distributions with equal means but different variances.

## 16. Probability:

Random experiments: outcomes, sample spaces( set representation).Events: Occurrence of events , 'not', 'and' \& 'or' events, exhaustive events, mutually exclusive events. Axiomatic (set theoretic) probability, connections with the theories of earlier classes. Probability of an event, probability of 'not', 'and' \& 'or' events.

$$
\begin{aligned}
& \text { मूटेटी-fाभभग्गुदीं }
\end{aligned}
$$

मभां ： 8 ひ̛टे
वॅल भीव ： 100

## 

 भंवां टी हंड|  | $=70$ भुव |
| :---: | :---: |
| मी．मी．टी． | $=30$ ria |
| वॅल भुव | $=100$ rid |
| यग्म भैव | $=33$ भंव |


| परिला पेयठ（डग्ठा－I） | मभां： 4 ひ̛टे | नैप्नळ：मदेठ |
| :---: | :---: | :---: |
| ट्छत्रा पेบठ（डग्ठ－II） | मभர்： 4 પ̛टे | नैमत欠ः |

डाग－I भिव： 30
 वठरे।

डग्ग－II
भंव： 30

डग्ग－III
भீव： 10

## मैम़रळ वंभ




पूम्नठ पॅउठ टी ब्लथ－ठषт／Structure of Question Paper

वॅल भिव： 100
उग्व－I
भंव ： 30

 वीडे साट्टो।

डाना－II
भंव： 30



उाठा－III
भீव： 10

## नैम्रूळ व์भ


 सा भुलांवट रीउा साग्टेठा।

Time: 3Hrs.
Theory: $\mathbf{3 0}$ Marks
Practical: $\mathbf{4 0}$ Marks
CCE: 30 Marks
Total: $\mathbf{1 0 0}$ Marks

## STRUCTURE OF QUESTION PAPER (THEORY)

1. The question paper will comprise of 14 questions in total.
2. All questions will be compulsory to attempt.
3. The question paper will consist of three parts.

Part-I will consist of 8 objective type questions (Q. no. 1 to 8 ) carrying one mark each. The answer of each question should not exceed more than one sentence.

8×1=8 Marks
Part-II will consist of four (4) short answer type questions (G. no. 9 to 12) carrying three (3) marks each. The answer of each question should be given in 10 to 15 lines. $4 \times 3=12$ Marks
Part-III will consist of two (2) essay type questions (Q. no. 13 to 14) with internal choice from both parts- A and B parts of the syllabus. These questions will carry 5 marks each and their answer should not exceed more than two pages of the answersheet. $2 \times 5=10$ Marks

SECTIONWISE DISTRIBUTION OF GUESTIONS AND MARKS

| Type of Guestions | Marks of per <br> Question | No. of <br> Questions |  | Section-wise Distribution of <br> Questions |  |
| :--- | :--- | :--- | :--- | :---: | :---: |
|  |  | Total <br> Marks |  |  |  |
| Objective Type | 1 | 8 | 4 | 4 | 8 |
| Short Answer Type | 3 | 4 | 2 | 2 | 12 |
| Essay Type | 5 | 2 | 1 | 1 | 10 |
| Total Questions |  | $\mathbf{1 4}$ | $\mathbf{7}$ | $\mathbf{7}$ | $\mathbf{3 0}$ |

Syllabus (Theory)

## Part-A

1.) Definition of the following with full explanation:

Sangeet, naad, shruti, swar, saptak, Thaat, Raag, Arohi, Avrohi, Pakar, Alaap, Taan, Palta, Vadi, Samvadi, Anuvadi, Vivadi, Varan, Alankar, Laya, (Madhya, Drut and Vilambit) Taal, Avartan, Sam, Tali, Khaali, Matra, Sathai, Antra, Sanchri, Abhog.
2.) Knowledge of Jatis of Raags.
3.) The life of sketches and contribution towards music by
(a) Pt. V.N. Bhat Khande
(b) Pt. Dalip Chander Bedi
(c) S. Sohan Singh
4.) Knowledge of the following:-
(a) Rules of Thaats and Raags and their comparison.
(b) Purvang and Utrang Raags.
(c) Ashrya and Janya Raags.

## PART-B

(i) To write the notations of Khayals in Raags:
a) Bhopali
b) Kalyan
c) Alahya Bilawal
(ii) Notation of Teen Taal, Dadra, Jhap Taal, Kaharwa along with Ikgun and Dugun Laykaries.
(iii) Description of prescribed Raags.
(iv) Recognition of prescribed Raags from the given Swar-Sangaties.

# Paper - B PRACTICAL (MUSIC VOCAL) STRUCTURE OF GUESTION PAPER 

There should not be more than 9 (nine) students in a batch of a practical examination. The question paper will set by the examiner on the spot, while setting the question paper in practical, the examiner must consider the syllabus in theory and will follow the following instructions.

1. Demonstration/performance of any one Raag out of the prescribed syllabus. The choice of the Raag will be done by the student. It will be for 6 minutes and shall carry 10 marks.
2. Demonstration/performance of any one Raag out of the prescribed syllabus. The choice of the Raag will be of the examiner. It will be for 4 minutes and will carry 10 marks.
3. Demonstration of 'Taals' in Ekgun and Dugun layakaries by hand. It will be for 4 minutes and will carry 10 marks.
4. Recognition of one Taal and one Raag out of the prescribed syllabus. It will be for 2 minutes and will carry 5 marks.
5. Demonstration regarding Alankaar/National Anthem/non detailed Raags. It will also be for 4 minutes and will carry 5 marks.

## SYLLABUS (PRACTICAL)

(a) Knowledge of Shudha, Komal and Tiver Swars.
(b) Capability to demonstrate the following:

Taals with Bols and Matras by hand in Ikgun and Dugun layakaries:
i) Teen Taal
ii) Dadra
iii) Jhap Taal
iv) Kaharva Taal
(c) One Drut Khyal with four Taans in
i) Kalyan ii) Allhayia Billawal iii) Bhopali Raag
(d) National Anthem.
(e) To recognise Raags and Taals of the course.
(f) Capability of demonstration to Matras (Dugun) and four Matras (Chougun) in one beat.
(g) Knowledge of the following:-
i) Correct Posture (Mudra)
ii) Non-detail Raags, in terms of Arohi, Avrohi, Pakar and their definitions:
(a) Khamaz
(b) Kafi
(h) Knowledge of the following:

String used in Tanpura
(i) Following Alankaars to be sung in the Swars in kafi:-
(i) $\quad \mathrm{Sa} \operatorname{Re} \mathrm{Ga} \mathrm{Ma} \mathrm{Pa}$ Dha Ni, Sa Ni Dha Pa Ma Ga Re Sa
(ii) Sa, Re Re, Ga Ga, Ma Ma, Pa pa, Dha Dha, Ni Ni, Sa sa, Sa Sa, Ni Ni, Dha Dha, Pa Pa, Ma Ma, Ga Ga, Re Re, Sa Sa.
(iii) Sa, Sa Re Sa, Sa Re Ga Re Sa, Sa Re Ga Ma Ga Re Sa, Sa Re Ga Ma Pa Ma Ga Re Sa, Sa Re Ga Ma Pa Dha Pa Ma Ga Re Sa, Sa Re Ga Ma Pa Dha Ni Pa Ma Ga Re Sa, Sa Re Ga Ma Pa Dha Ni Sa Ni Dha Pa Ma Ga Re Sa.
(iv) Sa Re Ga, Re Ga Ma, Ga Ma Pa, Ma Pa Dha, Pa Dha Ní, Dha Ni Sa, Sa Ni Dha, Ni Dha Pa, Dha Pa Ma, Pa Ma Ga, Ma Ga Re, Ga Re Sa.

Theory: $\mathbf{3 0}$ Marks
Practical: $\mathbf{4 0}$ Marks
CCE: 30 Marks
Total: $\mathbf{1 0 0}$ Marks

## STRUCTURE OF QUESTION PAPER (THEORY)

1. The question paper will comprise of 14 questions in total.
2. All questions will be compulsory to attempt.
3. The question paper will consist of three parts.

Part-I will consist of eight (8) objective type questions (Q. no. 1 to 8) carrying one mark each. The answer of each question should not exceed more than one sentence.
$8 \times 1=8$ Marks
Part-II will consist of four (4) short answer type questions (Q. no. 9 to 12) carrying three (3) marks each. The answer of each question should be given in 10 to 15 lines. $4 \times 3=12$ Marks
Part-III will consist of two (2) essay type questions (Q. no. 13 to 14) with internal choice from both parts- A and B parts of the syllabus. These questions will carry 5 marks each and their answer should not exceed more than two pages of the answer sheet. $2 \times 5=10$ Marks

## SECTIONWISE DISTRIBUTION OF QUESTIONS AND MARKS

| Type of Guestion | Marks of <br> per <br> Question | No. of <br> Questions | Section-wise Distribution of <br> Questions |  | Total <br> Marks |
| :--- | :--- | :--- | :--- | :--- | :---: |
|  |  |  | Section - B |  |  |
| Objective Type | 1 | 8 | 4 | 4 | 8 |
| Short Answer Type | 3 | 4 | 2 | 2 | 12 |
| Essay Type | 5 | 2 | 1 | 1 | 10 |
| Total Questions |  | 14 | 7 | 7 | 30 |

## SYLLABUS (THEORY) PART-A

(i) Definition of the following:-

Sangeet, Naad, Matra, Vibhag, Taal, Laya, Theka, Avartan, Sam, Taali, Khaali, Kayada, Laggi, Mukhra, Mohra.
(ii) (a) Short History of Tabla.
(b) Merits and demerits of Tabla Player.
(c) Description of Tabla.
(d) Ten Varnas of Tabla.
(e) Principles of Tabla accompaninent with vocalist and instrumentalist.
(iii) Biographical sketches.
(a) Ustad Ahmad Jaan Thirkva.
(b) Pt. Anokhe Lal
(c) Pt. Krishan Maharaj
(d) Ustad Alla Rakha.

## PART-B

(i) Description and comparison of Teen Taal, Tilwara, Jhap Taal, Sul Taal.
(ii) Recognition of prescribed Taals from the given Bols.
(iii) Two laggies in Kehrva and Dadra.
(iv) Notation of prescribed Taals along with Dugun and Chougun Laykaries.
(v) Notation of the following terms in Teentaal, Jhap Taal, Rupak Taal: One Kayada, two Paltas, one Rela, one Tukra and one Tihai.

PAPER-B
PRACTICAL MUSIC (TABLA)
STRUCTURE OF QUESTION PAPER
There should not be more than 9 (nine) students in a batch of practical examination. The question paper will set by the examiner on the spot. While setting the question paper
in practical, the examiner must consider the syllabus in theory and will follow the following instructions.

1. Demonstration/performance of Solo Vadan of any one Taal out of the prescribed syllabus. The choice of the Taal will be done by the student. It will be for 6 minutes and shall carry 10 marks.
2. Demonstration/performance of Solo Vadan of any one Taal out of the prescribed syllabus. The choice of the Taal will be done by the examiner. It will be for 4 minutes and will carry 10 marks.
3. Demonstration of 'Taals' in Ekgun and Dugun layakaries by hand. It will be for 4 minutes and will carry 10 marks.
4. Ability to play one laggi in any Taal out of the syllabus. It will be for 2 minutes and will carry 5 marks.
5. Ability to play Tabla with Lehra. It wil be for 4 Minutes and will carry 5 Marks.

## PRACTICAL

(i) Systematic solo performance of the following Taals with Peshkar, Kayada, Palta, Tihai, Tukra, Rela and Pakar: Teen Taal, Jhap Taal, Rupak Taal.
(ii) Two laggies in Dadra and Kehrva Taal.
(iii) To play simple Theka of the Ek Taal, Tilwara, Sul Taal.
(iv) Ability to play Tabla with Lehra.
(v) Ability to produce different bols of Taal by the examiner.
(vi) Padhant of Ikgun, Dugun and Chougun Laykaries of prescribed Taals and on Tabla.

# Class-XI <br> MUSIC - INSTRUMENTAL 

Time: 3 Hrs. Time: 20 Minutes

Theory: $\mathbf{3 0}$ Marks
Practical: $\mathbf{4 0}$ Marks
CCE: 30 Marks
Total: 100Marks

## STRUCTURE OF QUESTION PAPER (THEORY)

1. The question paper will comprise of 14 questions in total.
2. All questions will be compulsory to attempt.
3. The question paper will consist of three parts.

Part-I will consist of eight (8) objective type questions (Q. no. 1 to 8) carrying one mark each. The answer of each question should not exceed more than one sentence. $8 \times 1=8$ Marks
Part-II will consist of four (4) short answer type questions (G. no. 9 to 12) carrying three (3) marks each. The answer of each question should be given in 10 to 15 lines. $4 \times 3=12$ Marks
Part-III will consist of two (2) essay type questions (Q. no. 13 to 14 ) with internal choice from both parts- A and B parts of the syllabus. These questions will carry 5 marks each and their answer should not exceed more than two pages of the answer sheet. $2 \times 5=10$ Marks
SECTIONWISE DISTRIBUTION OF GUESTIONS AND MARKS

| Type of Questions | Marks of per Guestion | No. of Questions | Section-wise Distribution of Guestions |  | Total Marks |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Section-A | Section-B |  |
| Objective Type | 1 | 8 | 4 | 4 | 8 |
| Short Answer Type | 3 | 4 | 2 | 2 | 12 |
| Essay Type | 5 | 2 | 1 | 1 | 10 |
| Total Questions |  | 14 | 7 | 7 | 30 |
| SYLLABUS PART-A THEORY |  |  |  |  |  |

1. Definitions of the following:-

Sangeet, Naad, Shruti, Swar, Saptak, Thaat, Raag, Arohi, Avrohi, Pakar, Alankaar, Laya (Vilambit, Mahdya and Drut) Taal, Avartan, Sam, Taali, Khaali, Matra, Sathai, Antra, Mizrab, Taan, Tora, Vadi, Samvadi, Anuvadi, Varjit, Varna, Gat (MaseetKhani and Razakhani), Chikari, Meend and Jhala,
2. (a) Knowledge of the Jatis of Raags.
(b) Rules of Thaats and Raags and their comparison.
(c) Purvang and Uttrang Raags.
3. Life sketches and contribution towards music of the following:-
(i) Pt. V.N. Bhatkhande
(ii) Ravi Shankar
(iii) Ustad Vilayat Khan

## PART-B

1. To write the notations of Raags:
a) Bhopali b) Kalyan
c) Alhya Bilawal Raag
2. Description of prescribed Raags.
3. Notation of Teen, Dadra, Jhap, Kehrava. Taal alongwith Ikgun, Dugun and Chougun Laykaries.
4. Recognition of prescribed Raags from the given Swarsangities.

## PAPER - B <br> PRACTICAL (MUSIC INSTRUMENTAL) STRUCTURE OF GUESTION PAPER

There should not be more than 9 (nine) students in a batch of a practical examination. The question paper will set by the examiner on the spot, while setting the question paper in practical, the examiner must consider the syllabus in theory and will follow the following instructions.

1. Demonstration/performance of any one Raag out of the prescribed syllabus. The choice of the Raag will be done by the student. It will be for 6 minutes and shall carry 10 marks.
2. Demonstration/performance of one Raag out of the prescribed syllabus. The choice of the Raag will be of the examiner. It will be for 4 minutes and will carry 10 marks.
3. Demonstration of Taals in Ekgun and Dugun layakaries by hand. It will be for 4 minutes and will carry 10 marks.
4. Recognition of one Taal and one Raag out of the prescribed syllabus. It will be for 2 minutes and will carry 5 marks.
5. Demonstration regarding Alankaar/non detailed Raags. It will also be for 4 minutes and will carry 5 marks.

## SYLLABUS (PRACTICAL)

(a) Knowledge of Shudha and Vikrit Swaras.
(b) Capability to demonstrate the following Taals with Bols and Mataras by hand in Ikgun (Brabar) and Dugun Laykeries: Teen Taal and Dadra, Jhap Taal, Kehrava.
(c) One fast Gat with four toras in Bhopali, Kalyan and Alahya Bilawal raags
(d) Knowledge of the following:-
(i) Strings used in your instruments.
(ii) Correct posture (Mudra)
(e) To recognize raags and taals of your course.
(f) Non detailed raags in terms of definition Arohi, Avrohi and Pakar.
(i) Khamaz
(ii) Deshkaar

Time: 3 Hours
Theory: $\mathbf{7 0}$ Marks
CCE: 30 Marks
Total: $\mathbf{1 0 0}$ Marks

## STRUCTURE OF GUESTION PAPER

1. There will be 22 questions in all. All questions will be compulsory.
2. Question No. 1 to 10 will carry 1 mark each. Answer to each question should be in about 1- 15 words.
$10 \times 1=10$
3. Question No. 11 to 15 will carry 3 marks each. Answer to each question should be in about 30-35 words
$5 \times 3=15$
4. Question No. 16 to 20 will carry 5 marks each with $100 \%$ internal choice. Answer to each question should be in about 75-85 words. $5 \times 5=25$
5. Question No. $21 \& 22$ will carry 10 marks each. Answer to each question should be in about $250-300$ words. Three will be $100 \%$ internal choice in these questions. The paper setter should not set more than one such question from one chapter.

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2 \times 10=20
$$

Unit-wise Weightage to Content

| Unit No. | Questions <br> carrying 1 <br> Mark | Questions <br> carrying 3 <br> Marks | Questions <br> carrying 5 <br> Marks | Questions <br> carrying 10 Marks | Total |
| :--- | :---: | :---: | :---: | :---: | :---: |
| $1,2,3,4$ | 5 | 3 | 3 | 1 | 39 Marks |
| $5,6,7,8$, | 5 | 2 | 2 | 1 | 31 Marks |
| Total questions | 10 | 5 | 5 | 2 | 22 Questions |
| Total marks | 10 | 15 | 25 | 20 | 70 Marks |

## SYLLABUS

Unit-I (a) Logic: Definition, Meaning and scope of Logic. The place of Logic as a Science. Relationship of Logic as compared to that of Psychology and Grammar. Uses of studying Logic.
(b) Fundamental Laws of thought
(c) Terms: Their meaning, Connotation and Denotation.

Unit-II Logical Definition: Its rules. Fallacies arising out of violation of rules. Limits of logical definition. Practical exercises in fallacies of logical definitions.
Unit-III (a) Induction, its meaning and definition Difference between Induction and Deduction.
(b) Kinds of Induction: Proper and Improper Induction. Scientific Induction, Perfect Induction, Simple Enumeration and Analogy.
(c) Formal Grounds of Induction: Law of Causation, Law of uniformity of nature-various uniformities.
Unit-IV Material Grounds of Induction: Observation: Testimony Experiment: Advantages of Experiment over Observation and advantages of Observation over Experiment. Regulative Principles of Observation and Experiment.
Unit-V Elementary Philosophy: Meaning, Definition and uses of Philosophy.
Unit-VI Branches of Philosophy: Metaphysics, Epistemology, Logic, Aesthetics and Psychology.
Unit-VII Relation of Philosophy to science and Religion.
Unit-VIII Dharma, Artha, Karma, Moksha, Varnashrama, Doctorine of Karma acacording to Indian Philosophy.

# म्बेटी－fाभागुद्रीं <br> मठीवर मिसिभा भडे षेछां 

मभां ： 3 びटे

> घिछिठी उाता - 30 भंव यूजठी डाठा - 40 भंव
> मी. मी .टी - 30 भंव
> वॅल - 100 भंव

## पूम्सत पॅउठ टी ब़ु ठेषा


 पिगठां सा छै उठ 10 म्नघटां उॅर हा ने मरहा नै।
 テै।
 मवत्रा जै।


> यग्ठवूभ
> लिष्ठी उग्ठा

## याठ परिग्ला मगीठव मिनिभिभ

（Ө）उग्वउ टिॅछ मठीवर मिॅषिभr सा पिउिग्म
（भ）मठीठर मिॅिभा टी पागठा，टीषे भंडे छिसेत्र

## याठ Е्छ <br> （1）मठीठव fिॅчिभा से मठीठव विनिभा मघंयी यूड्डग्ड

（1）रमठउां से पूठाट्ट
（Ө）uेमी－यूघंय सां यॅठा यूटाली डे वमठउ से यूठा्ट
（भ）रमतउ से लग्र ठोइ यूटाली से यूडा्द
（ट）मह्ग विविभा यूटाली डे वमठउ से पूडा्ड


## यग्ठ डीक्ना मठीठव मिॅँिभा से भरटन्टिताभग्तव पॅ₹


（भ）षेठ से मियांड

（म）प्ठट्टा

## यग्ठ संघए मिगड मिॅँिभा



 ठमीली सट्म्टीभां ही टनर्ं से यू्ठा्ट।
 कप्टी मिग्ड मिॅसिभा सा जनासात्र।



## 


(भ) भ์क्षग्व षेठ द्विठा
(घ) थंक्षाप्व उर्लयिव भैनमीटेम़त

## पग्ठ हेटां मठीठव हग्पा भडे fिवग्म



(घ) ट्भिवडीठाउ मिगड भडे मिगड टिजन
(म) चिठग्ठीभां लप्टी मिड्राित छेत्तर

## यग्ठवूभ (यूजगती)

## मभां 4 யீटे

यूजगी : 40 भंव



11 टंडां - 100 मीटठ, 200 hीटठ, 400 hीटठ भुे 800 hीटठ, 3000 hीटठ।

 भीटठ (लइ्शवभां ट्म्मडे) विलेभ।



氏ेठां (लइवे भठे लइवीभां लप्टी)।

 गिसभव ढैव इांम

मव్ळ区 यूडीटॉयउा 3 भर्भ
नँठ यूडीटॉयउा 4 भिव
निष्टु थूउीटियउा 6 भंव
गत्न यूउीटियउा 8 भृव
वँभी यूडीटियउा 10 भुव

व) हाप्टिटा - 4 भंव


Time : 3 Hours
Theory: 50 Marks
Practical: $\mathbf{2 0}$ Marks
C.C.E.: 30 Marks

Total: 100 Marks
STRUCTURE OF GUESTION PAPER (Theory)

1. There will be one theory paper comprising of 26 questions. The student has to attempt total 20 question out of 26 as per the directions given below:
2. Question no. 1 to 5 will be of one mark each.
3. Question no. 6 to 14 will be of two marks each. Candidate can attempt any 6 questions out of 9 questions.
4. Question no. 15 to 23 will be of three marks each. Candidate can attempt any 6 questions out of 9 questions.
5. Question no. 24 to 26 will be of five marks each. There will be internal choice in them.
6. Distribution of marks over different dimensions of the paper will be as follows:

| LEARNING OUTCOMES | MARKS | PERCENTAGE OF MARKS |
| :--- | :---: | :---: |
| KNOWLEDGE | 18 | $36 \%$ |
| UNDERSTANDING | 22 | $44 \%$ |
| APPLICATION | 10 | $20 \%$ |
| Total | $\mathbf{5 0}$ | $\mathbf{1 0 0} \%$ |

7. There will be no question of the objective type such as Yes/No, tick/cross, fill in the blanks, multiple choice, true/false etc.
8. Use of un-programmable calculator is allowed. The log tables can be used.
9. Total weightage of numerical will be $20 \%$.

UNIT WISE DISTRIBUTION OF MARKS

| Unit | Title | Marks |
| :--- | :--- | :---: |
| UNIT-I | Physical world and measurement | 02 |
| UNIT-II | Kinematics | 07 |
| UNIT-III | Laws of motion | 07 |
| UNIT-IV | Work, Energy \& Power | 04 |
| UNIT-V | Motion of System of Particles \& Rigid body | 04 |
| UNIT-VI | Gravitation | 04 |
| UNIT-VII | Properties of Bulk matter | 07 |
| UNIT-VIII | Thermodynamics | 04 |
| UNIT-IX | Behaviour of perfect gas and kinetic theory of gases | 04 |
| UNIT-X | Oscillation \& waves | 07 |
| Total Marks |  | $\mathbf{5 0}$ |

SCHEMATIC DISTRIBUTION OF MARKS

| UNIT | Title | 1 Mark <br> Question | 2 Marks <br> Question | 3 Marks <br> Question | 5 Marks <br> Question | Total Marks |
| :--- | :--- | :---: | :---: | :---: | :---: | :---: |
| 1 |  <br> measurement | - | 1 | - | - | 02 |
| 2 | Kinematics | - | 1 | - | 1 | 07 |
| 3 | Laws of motion | - | 1 | - | 1 | 07 |
| 4 | Work, Energy \& Power | 1 | - | 1 | - | 04 |
| 5 | Motion of System <br> Particles \& Rigid body | 1 | - | 1 | - | 04 |
| 6 | Gravitation | 1 | - | 1 | - | 04 |
| 7 | Properties of matter | - | 1 | - | 1 | 07 |
| 8 | Thermodynamics | 1 | - | 1 | - | 04 |
| 9 | Behaviour of Perfect gas <br> \& Kinetic theory of gases | 1 | - | 1 | - | 04 |
| 10 | Oscillation \& waves | - | 2 | 1 | - | 07 |
| Total Questions | 5 | 6 | 6 | 3 | $20+6$ choice <br> questions=26 |  |
| Total Marks |  |  |  |  |  |  |

## INSTRUCTIONS FOR PAPER SETTER

Note:

1. There will be one theory paper consisting of total 26 questions. Three questions of two mark each \& three questions of three marks each are choice questions will be set in the paper.
2. Question no. 6 to 14 will be of 2 marks each, out of total 9 questions carrying 2 marks each, candidate can attempt any 6 questions.
3. Question no. 15 to 23 will be of 3 marks each. Out of 9 questions carrying 3 marks each, candidate can attempt any 6 questions.
4. From one unit, only choice question either of two marks or three marks can be set. Choice question of two marks or three marks will be set only from those units carring two or three marks questions.
5. Question No. $24-26$ will be of five marks and there will be $100 \%$ internal choice in them.

## SYLLABUS (THEORY)

## Unit I : Physical World and Measurement

Physics - scope and excitement; nature of physical laws; Physics, technology and society. Need for measurement: Units of measurement; systems of units; SI units, fundamental and derived units. Length, mass and time measurements; accuracy and precision of measuring instruments; errors in measurement, significant figures.
Dimensions of physical quantities, dimensional analysis and its applications.

## Unit II : Kinematics

Frame of reference. Motion in a straight line: Position-time graph, speed and velocity.
Uniform and non-uniform motion, average speed and instantaneous velocity.
Uniformly accelerated motion, velocity-time, position-time graphs, relations for uniformly accelerated motion (graphical treatment).
Elementary concepts of differentiation and integration for describing motion, Scalar and vector quantities: Position and displacement vectors, general vectors and notation, equality of vectors, multiplication of vectors by a real number; addition and subtraction of vectors. Relative velocity.
Unit vector: Resolution of a vector in a plane - rectangular components. Scalar and vector product of vectors. Motion in a plane. Cases of uniform velocity and uniform accelerationprojectile motion. Uniform circular motion.

## Unit III : Laws of Motion

Intuitive concept of force. Inertia. Newton's first law of motion; momentum and Newton's second law of motion; impulse: Newton's third law of motion. Law of conservation of linear momentum and its applications. Equilibrium of concurrent forces. Static and kinetic friction, laws of friction. rolling friction, lubrication.
Dynamics of uniform circular motion: Centripetal force, examples of circular motion (vehicle on level circular road. vehicle on banked road).

## Unit -IV Work, Energy and Power

Work done by a constant force and a variable force; kinetic energy, work-energy theorem, power.
Notion of potential energy, potential energy of a spring, conservative forces: conservation of mechanical energy (kinetic and potential energies); non- Conservative forces, motion in a vertical circle; elastic and inelastic collisions in one and two dimensions.

## Unit-V Motion of System of Particles and Rigid Body

Centre of mass of a two-particle system, momentum conversation and centre of mass motion. Centre of mass of a rigid body; centre of mass of uniform rod.
Moment of a force, torque, angular momentum, conservation of angular momentum with some examples.
Equilibrium of rigid bodies, rigid body rotation and equations of rotational motion, comparison of linear and rotational motions; moment of inertia, radius of gyration.
Values of moments of inertia for simple geometrical objects (no derivation). Statement of parallel and perpendicular axes theorems and their applications.

## Unit-VI Gravitation

Keplar's laws of planetary motion. The universal law of gravitation.
Acceleration due to gravity and its variation with altitude and depth.
Gravitational potential energy; gravitational potential. Escape velocity, Orbital velocity of a satellite. Geo-stationary satellites.

## Unit-VII Properties of Bulk Matter

Elastic behaviour, Stress-strain relationship, Hooke's law, Young's modulus, bulk modulus, shear, modulus of rigidity, poisson's-ratio; elastic energy
Pressure due to a fluid column Pascal's law and its applications (hydraulic lift and hydraulic brakes). Effect of gravity on fluid pressure.
Viscosity, Stokes' law, terminal velocity, Reynold's number, streamline and turbulent flow. Critical velócity. Bernoulli's theorem and its applications.
Surface energy and surface tension, angle of contact, excess of pressure, application of surface tension ideas to drops, bubbles and capillary rise.
Heat, temperature, thermal expansion; thermal expansion of solids, liquids and gases, anomalous expansion, specific heat Capacity: Cp, Cv-colorimetry; change of state-latent heat.
Heat transfer-conduction, convection radiation and thermal Conductivity, Qualitative idea of Blackbody radiation, Newton's law of cooling and Stefan's law, Wein's displacement law, Green House effect.

## Unit-VIII Thermodynamics

Thermal equilibrium and definition of temperature (zeroth law of thermodynamics). Heat, work and intemal energy. First law of thermodynamics. Isothermal and adiabatic processes.
Second law of thermodynamics: reversible and irreversible processes.
Heat engines and refrigerators.

## Unit-IX Behaviour of Perfect Gas and Kinetic Theory

Equation of state of a perfect gas, work done on compressing a gas.
Kinetic theory of gases. Assumptions, concept of pressure. Kinetic energy and temperature;
rms, speed of gas molecules; degrees of freedom, law of equipartition of energy (statement only) and application to specific heat capacities of gases: concept of mean free path, Avogadro's number.

## Unit-X Oscillations and Waves

Periodic motion - period, frequency, displacement as a function of time.
Periodic functions.
Simple harmonic motion (S.H.M) and its equation; phase; oscillations of a spring-restoring force and force constant; energy in S.H.M.-kinetic and potential energies: simple pendulum-derivation of expression for its time period: free, forced and damped oscillations (qualitative ideas only), resonance.
Wave motion. Longitudinal and transverse waves, speed of wave motion. Displacementrelation for a progressive wave. Principle of superposition of waves, reflection of waves, standing waves in strings and organ pipes, fundamental mode and harmonics, Beats, Doppler effect.

## STRUCTURE OF PAPER (PRACTICAL)

Time: $\mathbf{3} \mathbf{h r s}$. Total : $\mathbf{2 0}$ Marks
Two experiment

$$
10
$$

Record of Activities
2
Viva on Activities 3
Record of Experiments 2 Viva of Experiments Total

## PRACTICAL SYLLABUS

## Experiments

1. Use of Vernier Callipers
(i) To measure diameter of a small spherical/cylindrical body.
(ii) To measure internal diameter and depth of a given beaker/ calorimeter and hence find its volume.
2. Use of screw gauge
(i) to measure diameter of a given wire,
(ii) to measure thickness of a given sheet
(ii) to measure volume of an irregular lamina
3. To determine radius of cuvature of a given spherical surface by a spherometer.
4. To find the weight of a given body using parallelogram law of vectors.
5. Using a simple pendulum, plot L-T and L-T 2 graphs. Hence find the effective length of second's pendulum using appropriate graph.
6. To study the relationship between force of limiting friction and normal reaction and to find co-efficient of friction between a block and a horizontal surface.
7. To find the downward force, along an inclined plane, acting on a roller due to gravitational pull of the earth and study its relationship with the angle of inclination $(\theta)$ by plotting graph between force and $\sin \theta$.
8. To determine the mass of two different objects using a beam balance.
9. (i) To study the relation between frequency and length of a given wire under constant tension using sonometer.
(ii) To study the relation between the length of a given wire and tension for constant frequency using sonometer.
10. To find the speed of sound in air at room temperafure using a resonance tube by two-resonançe positions.

## Activities

1. To make a paper scale of given least count, e.g. $0.2 \mathrm{~cm}, 0.5 \mathrm{~cm}$.
2. To determine mass of a given body using a metre scale by principle of moments.
3. To plot a graph for a given set of data, with proper choice of scales and error bars.
4. To measure the force of limiting friction for rolling of a roller on a horizontal plane.
5. To study the variation in range of a jet of water with angle of projection.
6. To study the conservation of energy of a ball rolling down on inclined plane (using a double inclined plane).
7. To study dissipation of energy of a simple pendulum by plotting a graph between square of amplitude and time.
8. To observe change of state and plot a cooling curve for molten wax.
9. To observe and explain the effect of heating on a bi-metallic strip.
10. To nóte the change in level of liquid in a container on heating and interpret the observations.
11. To study the effect of detergent on surface tension of water by observing capillary rise.
12. To stúdy the factors affecting the rate of loss of heat of a liquid.
13. To study the effect of load on depression of a suitably clamped metre scale loaded. (i) at its end (ii) in the middle.

Time: 3 Hrs.
Theory: 50 Marks
Time: 3 Hrs.

## Practical: 20 Marks <br> CCE: 30 Marks <br> Total: $\mathbf{1 0 0}$ Marks

1. The Question paper will comprise of 19 questions in total.
2. All questions will be compulsory to attempt.
3. The question paper will consist of four parts:

Part-I will consist of five (5) objective type questions (Q.No. 1 to 5) carrying 1 mark each. Objective type questions may include questions with one word to one sentence answer or fill in the blank or true/false or multiple choice type questions. $5 \times 1=5$

Part-II will consist of six (6) short answer type I, questions (G. No. 6 to 11) carrying 2 marks each. Answer of each question should be given in 50-60 words.

$$
6 \times 2=12
$$

Part-III will consist of five (5) short answer type II, questions (Q. No. 12 to 16) carrying 3 marks each. Answers of each question should be given in 70-80 words.

$$
5 \times 3=15
$$

Part-IV will consist of three (3) long answer type questions with internal choice (Q. No. 17 to19) carrying 6 marks each. Answer of each question should be given in approximately two pages of the answer sheet.
$3 \times 6=18$
UNITWISE DISTRIBUTION OF GUESTIONS AND MARKS

| Type of questi on | Marks per questio n | No. of questio ns | Unitwise Distribution Of Guestions |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Unit-I | Unit- II | UnitIII | UnitIV | UnitV | UnitVI | UnitVII | UnitVIII | Mar ks |
| Objecti ve type | 1 Mark | 5 | 1 | 1 | - | 1 | - | 1 | - | 1 | 5 |
| Short answer type-I | $\begin{gathered} 2 \\ \text { Marks } \end{gathered}$ | 6 | 1 | 1 | 1 | 1 | - | 1 | - | 1 | 12 |
| Short answer type-II | $\begin{gathered} 3 \\ \text { Marks } \end{gathered}$ | 5 | 1 | 1 | - | 1 | - | 1 | - | 1 | 15 |
| Long answer type | $\begin{gathered} 6 \\ \text { Marks } \end{gathered}$ | 3 | - | - | 1 | - | 1 | - | 1 | - | 18 |
|  | al | 19 | 3 | 3 | 2 | 3 | 1 | 3 | 1 | 3 | 50 |

## SYLLABUS <br> PART-A

## Unit-I Psychology as a Science of Behaviour:

Nature of psychology, Importance of psychology in life. Its concept and Definition-Fields of Psychology-Relationship of Psychology with Physiology, Sociology and Education.

Unit-II Methods of Psychology:
Introspection, observation, Experimental and Case History Methods.

Response Mechanism: Meaning, Definition and Parts, i.e. Receptors, Effectors and Connections- Basic Unit of Nervous System: The Neurons and its kindsNerve Impulse and Reflex Action-Classification of Receptors according to Position and Function. Major Parts of Brain and their functions-The structure and function of Spinal Cord-The structure and function of Autonomic Nervous System, Endocrine glands and the effect of their Harmones on Behaviour.

## Unit-IV Sensory Processes

Definition, Meaning, Threshold and characteristics of Sensations-kinds of sensations with special reference to visual sensation.
-Eye as a Sense Organ-Colour Blindness and After Images.
Unit-V: Perception: Nature and Meaning. Difference between Illusions and Hallucinations.

Unit-VI: Attention: Meaning, Definition and characteristics of Attention-Factors affecting attention-span, Division and Distraction of Attention.

Unit-VII: Learning: Meaning, Definition and views regarding Nature of LearningCharacteristics of Learning-Methods and theories of Learning: Leaning through trial and error, Insight theory of Learning. Laws of lemming.

Unit-VIII: Memory: Meaning, Definition and characteristics of Memory-Kinds of MemoryProcesses of Memory: Recognition, Retention, Recall, Memorization-Forgetting and its Causes.

## EXPERIMENTS

1. Negative After image
2. Mapping of Sensory Spots in the skin
3. Mapping of blind spot
4. Span of Attention
5. Mirror Drawing Experiment
6. Retention by Recall
7. Immediate Memory Span
8. Division of Attention

# PUBLIC ADMINISTRATION <br> (Humanities Group) 

Time: 3 Hours

Theory: 70 Marks
CCE: $\mathbf{3 0}$ Marks
Total: 100 Marks

## STRUCTURE OF GUESTION PAPER

1. The Question Paper will cover whole of the prescribed syllabus.
2. All Questions will be compulsory.
3. 13 Questions will be set in the Question Paper.
4. Question No. 1 will consist of 10 sub parts of 1 mark each. Answer of each question should be given in 1-15 words. Objective type questions may include questions with one word to one sentence answer/fill in the blanks/true or false/multiple choice type questions.
5. Question No. 2 to 11 will carry 4 marks each. The answer of each question should be given in 75-80 words.
6. Question No. 12 and 13 each with internal choice will carry 10 marks each. The answer of each question should be given in 250-300 words.

Detail of questions set from each unit

| Syllabus | 1 Mark Questions | 4 Marks Questions | 10 Marks Questions | Total Marks |
| :---: | :---: | :---: | :---: | :---: |
| Unit I \& II | 3 | 3 | 1 | 25 |
| Unit III \& IV | 2 | 2 |  | 10 |
| Unit V \& VI | 3 | 3 | 1 | 25 |
| Unit VII \& VIII | 2 | 2 |  | 10 |
| Total | 10 Marks | 40 Marks | 20 Marks | 70 Marks |

## SYLLABUS <br> ELEMENTS OF PUBLIC ADMINISTRATION

## Unit-I

a) Meaning, Nature, Scope \& Significance of Public Administration.
b) Public Administration and other Social Sciences.
c) Public Administration and Private Administration.

## Unit-II

a) Chief Executive: Kinds, Functions.
b) Staff and Line Agencies.
c) Bureau and Board Type.

Unit III
a) Department, Public Corporation and Public Company
b) Public Administration and Legislature.
c) Public Administration and Judiciary.

Unit-IV
a) Public Relations.
b) Public Administration and Citizen

INDIAN ADMINISTRATION

## Unit-V

a) Salient Features of the Indian Administrative System.
b) Fundamental Rights and Directive Principles of State Policy.

## Unit-VI

a) Relations between the Union and the States.
b) The State Executive- President, Vice-President, Prime President and the Council of Ministers.

## Unit VII

a) Organisation and working of the Ministry of Home Affairs.
b) The State Executive and Council of Ministers.

Unit VIII
a) Organisation and Functions of the Department of Education at the State Level.
b) District Administration with special reference to the Role of Deputy Commissioner.

Class-XI

## STRUCTURE OF GUESTION PAPER

1. There will be 20 questions in all. All questions will be compulsory.
2. Question No. 1 to 10 will carry 1 mark each. Answer to each question should be in about 1-15 words.
$10 \times 1=10$
3. Guestion No. 11 to 15 will carry 2 marks each. Answer to each question should be in about 30- 35 words. $5 \times 2=10$
4. Guestion No. 16 to 19 will carry 5 marks each with $100 \%$ internal choice. Answer to each question should be in about 75-85 words.
$4 \times 5=20$
5. Question No. 20 will carry 10 marks with $100 \%$ internal choice. Answer to each question should be in about 250-300 words. $1 \times 10=10$

| TOPIC NO. | Questions <br> carrying 1 mark | Questions <br> carrying 2 marks | Questions <br> carrying 5 marks | Questions <br> carrying 10 marks |
| :--- | :---: | :---: | :---: | :---: |
| $1,2,3,4$ | 4 | 2 | 2 | 1 |
| $5,6,7,8,9$, | 6 | 3 | 2 | (with $100 \%$ choice) |
| Total questions | 10 | 5 | 1 |  |$|$

## Syllabus

1. The land of the people.
2. The age of the Harappa Culture.
3. The Age of the Vedic Aryans.
4. From the Buddha to Ashoka.
5. Invasions and impact.
6. The Gupta-Vardhana Age.
7. The Turks in the Punjab.
8. Education and Literature.
9. Art and Architecture.
10. The Siddhas and the Sufis.

# भैक्नम्वी (चटद्यां द्दिसा) <br> यठठ-बूम भडे भंव-दंड 

मगल: 2015-16

मभं : 3 巛̛टे
किषठी पेयठ:70 भंव
भांडाठव भ्रलांवट: 30 भंव
बॅल : 100 भंव

| लड्री तं: | यग-ठ-बू | भंब |
| :---: | :---: | :---: |
| 1. | थंक्षाप्वी-रर्गट्:-भाप्रातिर-वर्गह | 30 |
| 2. |  | 20 |
| 3. |  | 12 |
| 4. |  | 8 |
|  | वॅ" भُव | 70 |

## यूम़त पॅउठ टी वृष वेषा <br> 


 भठ्रमण नेटेठी :-

## 

 भग्यर्गठउ गटटो।।


(घ) उग्ना-घयः 4 भिव



$10 \times 1=10$ भீव


$4+8=12$ भुव





10 भंव
 विग साग्टेगा।
$4+4=8$ भंव

10 भंव


 भर्ममठ थूम्त U్ॅॅडे ताटठो-



हिठपर्गठउ याठ-थ्रमउवां:-
1। भाप्रुति थैत्ञाप्पी-रर्गट (इसरां डे टिरिउग्म)
21 भॅधीं శिटी ड़ठीभां
3। उग्मा -घेय


यठभ
मभां:3 ひீटे
लिषडी पेपठ: 70 भீव
मी.मी.टी.: 30 भंव
वृल: 100 भंव

## 

1. यूम़त पॅउठ fिॅछ बूॅल 23 यूम़त Јॅटो।
2. मग्ठे यूम्नत वठरे माक्ष़भी Јेटोो।


 विमे ही उवुं टे च मवसे गठ।
 छै उठ 50-60 मृघटां टिॅ चॅ्े।


 टा छै उठ, छै उठ पॅउठी से $21 / 2$ रितिभां ऊं टॉय ठा च्दे।

यர्ठ-वूभ

| यूम्रता टी विमभ | भंव यूडी यूम़त | यूम्नळां टी fिटडी |  |  | वृल भुव |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | डागा '回’ | उत्गा 'भ' |  |
| टमड़ टिम्ठ | 1 भீव | 11 | 5 | 6 | 11 |
| हँटे छै उठं ट्ग्ले (टा्टीय I) | 3 भंव | 05 | 3 | 2 | 15 |
| हटे छै उठां टाएले (टाप्टीय II) | 5 भुव | 04 | 1 | 3 | 20 |
| ठिघंप'उमव | 8 भंव | 03 | 2 | 1 | 24 |
| वॅल |  | 23 | 11 | 12 | 70 |
| डाठा (8) |  |  |  |  |  |





## उग्ठा (म)

पटिॅउठ ठांघं टा भापभैठ

## दिवम्पी 1 fिंट्र पठभ, सैठ पठभ भुडे घूपय पठभ:




 तिगद्टा।



## सिवम्पी 3 निॅध यठ्म:





## Class-XI <br> RURAL DEVELOPMENT AND ENVIRONMENT

Time: 3 Hours
Theory: $\mathbf{7 0}$ Marks
CCE: 30 Marks
Total: $\mathbf{1 0 0}$ Marks

## STRUCTURE OF QUESTION PAPER (THEORY)

1. There will be 21 questions in the question paper.
2. All questions are compulsory.
3. There will be the three-sections i.e. A, B and C in the question paper.

## Section A

This section will comprise of 11 Questions.

1. 6 will be of 1 mark each. Answer to each question will be in few words or one line. $1 \times 6=6$
2. 5 are very short anwer type Questions carrying 2 marks each. Each question should be answer in 5-7 lines. $2 \times 5=10$

## Section B

This section will comprise of part-1 of the syllabus containing 1-5 units. In this section, 6 questions of 5marks each will be set, whose answer should be given in 15-20 lines. $5 \times 6=30$

## Section C

This section will comprise of part -II of the syllabus containing unit-6-7. In this section 4 questions of 6 marks each will be set, whose answer should be given in 20-25 lines.
$6 \times 4=24$

## PART-I

## I. General Background:

(i) Introduction: Meaning and importance of Rural Development; Its basic objectives. Overall and integrated approach to Rural Development.
(ii) Integrated Rural Development Programme (I.R.D.P.). Its working, objectives and achievements: Various schemes of I.R.D.P. for strengthening the infrastructural base in the villages.
II. Role of Community Development and Voluntary Agencies in the Rural Development (with special reference to Punjab)
(i) Role of Voluntary Agencies like Mahila Mandals, Youth Clubs, Naujwan Sabhas and Farmers' Association etc.
(ii) Role of Gram Panchayats, Panchayat Samitis and Zila Parishads.
(iii) Role of B.D.P.O. and other functionaries at the Block and village level in the execution of the various schemes for the development of rural areas.
(iv) Role of District Rural Development Agencies (D.R.D.A.)
(v) Role of Focal Points in the overall development of rural areas.
(vi) Role of SFDA/MFAL agencies.

## PART-II

III. Rural Industries
(i) Development of the traditional skills in the rural artisans.
(ii) Role of village and Khadi Board Commission for setting up village and cottage industries in the rural areas.
(iii) Policy of the Government to encourage the rural people to set up their own small industries.

## PART-III

IV. Role of Agriculture in Rural Development (with special reference to Punjab) Importance of agriculture for self-sustaining growth in the rural areas.
(i) Cropping Pattern in the State:-

Major Rabi and kharif crops (Food and Cereals) grown in State and their average yields as compared to other States.
(ii) Diversification of Agriculture:-

Rotation of Crops, Relay cropping, Multiple cropping, mixed cropping and dry farming.
(iii) Farm Size and Management:-

Characteristics of farms in the State; Farm size and their inadequacies in resources use. Consolidation of Holdings and Land Ceiling Legislation in the proper management of farms.
(iv) Green Revolution:-

Its basic components and achievements for increasing the agricultural production in the State. Role of Green Revolution in the Rural Development.

## PART-IV

## V. Rural Finance \& Credit Facilities

(i) The Problem of Indebtedness.
(ii) Different sources of Rural Finance.
(iii) The Role of Cooperative Credit Societies, Agricultural Land Development Banks, Co-operative Banks, NABARD, RBI and other Govt. agencies for the provision of finance to the rural people.
VI. Rural Storage \& Marketing Facilities
(i) Problem of storage of Agricultural produce in the rural areas. Warehousing arrangement by private and Government agencies.
(ii) Location of Mandis in the rural areas. System of transportation of agricultural produce to the Mandis.
(iii) Existing system of marketing of cash crops, cereals, vegetables and other crops in the rural areas. Role of Regulated and Unregulated Markets.
(iv) Role of APEX Marketing Bodies i.e. MARKFED, MILKFED, MANDIKARAN BOARD, etc. in the State.
(v) Role of the State Government to ensure the remunerative prices to the producers.

## VII. Rural Employment

(i) Problem of unemployment in the rural areas.
(ii) Rural manpower as the major asset for rural development.
(iii) Various employment programmes sponsored by the Central and State Governments for rural people with special reference to CSRE, NREP, TRYSEM and RLEGP etc.

SYLLABUS OF URDU ELECTIVE CLASS 11th (2012-13)
NCERT NEW DELHI.


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पाठ्यकम
विषय : हिंदी पूर्णांक -70
समय : 3 घंटेकक्षा : ग्यारहवी
सी.सी.ई- 30
भाग-क : अति लघूत्तर प्रश्न ..... 10

1. संधि : स्वर संधि, व्यंजन संधि तथा विसर्ग संधि ..... (4)
2. वाक्य विश्लेषण / संश्लेषण ..... (2)
3. पारिभाषिक शब्दावली ..... (4)
भाग-ख : पाठ्य -पुस्तक ..... 26
भाग-ग : हिंदी साहित्य का इतिहास ( आदिकाल एवं भक्तिकाल) ..... 14
भाग-घ : रचनात्मक लेखन ..... 10
4. पत्र- लेखन ..... (6)
5. अनुच्छेद लेखन ..... (4)
भाग-ङ : व्यावहारिक ज्ञान ..... 10
6. पंजाबी वाक्यों का हिंदी अनुवाद ..... (5)
7. संक्षेपीकरणअथवारस (शृंगार,करुण,हास्य,शाँत,रौद्व,वीर,अद्भुत,भयानक और वीभत्स)(5)
पंजाब स्कूल शिक्षा बोर्ड द्वारा निर्धारित पाठ्य - पुस्तर्ं

     1.हिंदी पुस्तक-11
    2.हिंदी भाषा बोध और व्याकरण (ग्यारहवीं और बारहवीं कक्षा के लिए)

3.हिंदी साहित्य का इतिहास(ग्यारहवीं और बारहवीं कक्षा के लिए)

समय : 3 घंटे
प्रश्न-पत्र के पाँच भाग होंगे।

प्रश्न-पत्र की रूपरेखा
विषय : हिंदी
कक्षा : ग्यारहवी पूर्णांक -70
सी.सी.ई - 30

भाग-क : (अति लघूत्तर प्रश्न)
प्रश्न-1 (i) यह प्रश्न संधि से सम्बन्धित होगा। छ: शब्द देकर किन्हीं चार शब्दों की संधि/संधिविच्छेद
करने के लिये कहा जायेगा।
(ii) यह प्रश्न वाक्य विश्लेषण / संश्लेषण से सम्बन्धित होगा । तीन वाक्यों में से किन्हीं दो वाक्यों का विश्लेषण / संश्लेषण करने के लिये कहा जायेगा ।
(iii) अंग्रेज़ी के छ: पारिभाषिक शब्द दिये जायंगे जिनमें से किन्हीं चार शब्दों के हिंदी रूप लिखकर वाक्यों में प्रयोग करने के लिये कहा जायेगा।

भाग-ख (पाठ्य -पुस्तक) 26
प्रश्न-2 (क) हिंदी पुस्तक-12 में संकलित ‘प्राचीन काव्य’ में से दो पद्यांश दिये जायेंगे जिनमें से एक पद्यांश की सप्रसंग व्याख्या लिखने के लिये कहा जायेगा। प्रसंग के लिये 1 अंक

तथा व्याख्या के लिये 3 अंक निर्धारित है।
$1+3=(4)$
(ख) हिंदी पुस्तक- 12 में संकलित ‘आधुनिक काव्य' में से दो पद्यांश दिये जायेंगे जिनमें से एक पद्यांश की सप्रसंग व्याख्या लिखने के लिये कहा जायेगा।प्रसंग के लिये 1 अंक तथा व्याख्या के लिये 3 अंक निर्धारित है।
$1+3=(4)$
प्रश्न-3 (क) 'प्राचीन काव्य' की विषय वस्तु से सम्बन्धित दो लघूत्तर प्रश्न पूछे जायंगे जिनमें से एक प्रश्न का उत्तर लगभग 40 शब्दों में लिखने के लिये कहा जायेगा।
(ख) 'आधुनिक काव्य' की विषय वस्तु से सम्बन्धित दो लघूत्तर प्रश्न पूछे जायंगे जिनमें से एक प्रश्न का उत्तर लगभग 40 शब्दों में लिखने के लिये कहा जायेगा।
प्रश्न-4 पाठ्य - पुस्तक में संकलित गद्य भाग में से दो गद्यांश दिये जायंगे जिनमें से एक गद्यांश की सप्रसंग व्याख्या लिखने के लिये कहा जायेगा। प्रसंग के लिये 1 अंक तथा व्याख्या के लिये 3 अंक निर्धारित हैं।
प्रश्न-5 पाठ्य - पुस्तक में संकलित गद्य भाग की विषय वस्तु से सम्बन्धित दो निबन्धात्मक प्रश्न पूछे जायंगे जिनमें से एक प्रश्न का उत्तर लगभग 100 शब्दों में लिखने के लिये कहा जायेगा।

नोट :- प्रश्न-पत्र निर्माता पाठ्य - पुस्तक में संकलित गद्य भाग ( निबन्ध, कहानी एवं एकाँकी ) की सभी विधाओं को पूर्ण प्रतिनिधित्व दे।
प्रश्न-6 पाठ्य - पुस्तक में संकलित ‘निबन्ध' भाग में से दो लघूत्तर प्रश्न पूछे जायेंगे जिनमें से एक प्रश्न का उत्तर लगभग 50 शब्दों में लिखने के लिये कहा जायेगा।

प्रश्न-7 पाठ्य - पुस्तक में संकलित ‘कहानी’ भाग में से दो लघूत्तर प्रश्न पूछे जायंगे जिनमें से एक प्रश्न का उत्तर लगभग 50 शब्दों में लिखने के लिये कहा जायेगा।
प्रश्न-8 पाठ्य-पुस्तक में संकलित 'एकाँकी' भाग में से दो लघूत्तर प्रश्न पूछे जायेंगे जिनमें से एक प्रश्न का उत्तर लगभग 50 शब्दों में लिखने के लिये कहा जायेगा।

$$
\text { भाग-ग - हिंदी साहित्य का इतिहास ( आदिकाल एवं भक्तिकाल) } 14
$$

प्रश्न-9 इस प्रश्न में हिंदो साहित्य के ‘आदिकाल’की प्रमुख परिस्थितियों , प्रमुख प्रवृत्तियों एवं प्रमुख कवियों से सम्बन्धित दो निबन्धात्मक प्रश्न पूछ जायैंगे जिनमें से एक प्रश्न का उत्तर लगभग 150 शब्दों में लिखने के लिये कहा जायेगा।
aप्रश्न-10 इस प्रश्न में हिंदो साहित्य के ‘भक्तिकाल’की प्रमुख परिस्थितियों , प्रमुख प्रवृत्तियों एवं प्रमुख कवियों से सम्बन्धित दो निबन्धात्मक प्रश्न पूछे जायंगे जिनमें से एक प्रश्न का उत्तर लगभग 150 शब्दों में लिखने के लिये कहा जायेगा।
प्रश्न-11 इस प्रश्न में हिंदो साहित्य के ‘आदिकाल’ एवं ‘भक्तिकाल’ में से छ: वस्तुनिष्ठ लघु प्रश्न पूछे जायैंगे जिनमें से चार प्रश्नों का उत्तर लिखने के लिये कहा जायेगा।
(4)

भाग-घ (रचनात्मक लेखन)
10
प्रश्न-12 यह प्रश्न पत्र- लेखन से सम्बन्धित होगा। इस प्रश्न में 100 प्रतिशत आन्तरिक विकल्प दिया जायेगा।
(6)

प्रश्न-13 यह प्रश्न अनुच्छेद लेखन से सम्बन्धित होगा । कोई तीन विषय देकर उनमें से किसी एक विषय पर लगभग 100-120 शब्दों में अनुच्छेद लिखने के लिये कहा जायेगा।
भाग-ङ ( व्यावहारिक ज्ञान )

प्रश्न-14 यह प्रश्न अनुवाद से सम्बन्धित होगा । इस प्रश्न में पंजाबी के सात वाक्य देकर उनमें से किन्हीं पाँच वाक्यों का हिंदी में अनुवाद करने के लिये कहा जायेगा।

प्रश्न-15 यह प्रश्न संक्षेपीकरण से सम्बन्धित होगा । कोई एक अनुच्छेद देकर उसका संक्षेपीकरण करने के लिये कहा जायेगा।

अथवा
कोई दो रस देकर किसी एक रस की परिभाषा और उदाहरण लिखने के लिये कहा जायेगा।

## SANSKRIT

संस्कृत<br>कक्षा : ग्यारहवीं<br>पाठ्यकम

समय : 3 घण्टे
कुल अंक : 70
सी. सी. ई : 30

भाग -क (पाठ्य पुस्तक के 1 से 18 तक पाठ) 32
गद्यांशों का हिन्दी या पंजाबी या अंग्रेज़ी में अनुवाद ।
पद्य का हिन्दी या पंजाबी या अंग्रेज़ी में प्रसंग सहित अर्थ ।
पाठों के अभ्यासों में से हिन्दी में प्रश्न ।
पाठों के अभ्यासों में से संस्कृत लघु प्रश्न ।
पाठों के अभ्यासों में से संस्कृत शब्दों के हिन्दी में अर्थ ।
पाठों के अभ्यासों में से रिक्त स्थान पूर्ति ।
अथवा
पाठों के अभ्यासों में से यथानिर्दिष्ट परिवर्तन ।
भाग ख नाटक $(19,20$ पाठ )
7 (क) नाटक के अंशों का प्रसंग सहित अर्थ हिन्दी या पंजाबी या अंग्रेज़ी में ।
(ख) नाटक के अभ्यासों पर आधारित हिन्दी में प्रश्न ।
भाग-ग ( व्याकरण भाग )
(क) शब्द रूप : (संज्ञा शब्द ) (पु. ) देव , पति , सखि , साधु,महत्, वलवत्, पठत्, गच्छत्,आत्मन्, करिन् ।
(नपुं. ) फल , पठत ,नामन् महत्, गच्छत्, ।
(स्त्री. ) प्रभा , नदी वधू प्रभा, महती, गच्छन्ती, पठन्ती ।
(सर्वनाम शब्द)सव लिगों और विभक्तियों में -युष्मद, अस्मद्, तद् , एतद्, यद, इदम, किम्, सर्व
(ख) धातु रूप : ( लट्, लोट्,लङ्, विधिलिङ्, लृट् में)
भ्वादिगण : (परस्मैपद ) गर्ज ,सृ ,तृ ,।
आत्मनेपद- लभ्, सेव्, वृत् ।
तुदादिगण : (परस्मैपद) सिच्।
दिवादिगण : (परस्मैपद) शम्।
चुरादिगण : उभयपद चिन्त्, तुल्, पाल्,गण्, कथ् ।
(ग) वाक्य शुद्धि : (विशेष्य,कर्त्ता,किया में लिंग, विभक्ति, वचन और पुरुष की समता के आधार पर वाक्यों की शुद्धधि ।

अथवा
वाच्य परिवर्तन :- कर्तृवाच्य ,कर्मवाच्य , भाववाच्य की सरल रचनाएं केवल लट् में ।
(क) समास : केवल ( इतरेतर , एकशेष ,समाहार ) दून्दू समास ।
(ख) सन्धि : स्वर सन्धि :पूर्वरूप विधि, पररूप विधि, प्रकृतिभाव सन्धि ।
व्यंजन सन्धि :-श्चुत्व विधि, ष्टुत्व विधि ,छत्व विधि,चर विधि, अनुनासिक विधि. अनुस्वार विधि, षत्व विधि, लत्व विधि, जश् विधि ,पूर्व सर्वर्ण विधि

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विसर्ग सन्धि :- लोप विधि, उत्व विधि, ,रत्व विधि, शत्व विधि, सत्व विधि । अथवा
कृदंत प्रत्यय: निम्नलिखित धातुओं के साथ क्त, क्तवतु ,शतृ ,शानच् प्रत्यय लगाकर तीनों लिंगों में केवल प्रथमा विभक्ति एकवचन के रूप : भू, पठ्, लिख्,नम्, हस्, वस्, चल्, पत्, खाद , धाव्, कीड् दृश्, स्था, पा, सेव्, वृत्, वृध्, लभ् ।

अथवा
निम्नलिखित धातुओं के साथ क्त्वा प्रत्यय के रूप तथा उपयुक्त उपसर्ग लगाकर ल्यप् प्रत्यय के रूप : गम्, नम्, नश्, पत्, क्षल्, जि, नी, विश्, भू, स्था, घ्रा, दा, आप, कृ, हृ, स्मृ।
(ग) तुलनात्मक प्रत्यय: विशेषणों के साथ केल तरप् तथा तमप् प्रत्यय ।
अथवा
तद्वधित प्रत्यय - केवल भाववाची 'त्व’ और ‘ता प्रत्यय ।
अथवा
स्त्री प्रत्यय : ‘ई’ तथा ‘आ' प्रत्यय के सरल प्रयोग ।
हिन्दी सरल वाक्यों का संस्कृत में अनुवाद । (आठ वाक्य दिए जाएं जिनमें से पाँच वाक्यों का अनुवाद करने के लिए कहा जाए) ।

निर्धारित पुस्तक : संस्कृत सौरभम्- 11 पंजाब स्कूल शिक्षा बोर द्वारा प्रकाशित

> संस्कृत
> ग्यारहवी
> प्रश्न- पत्र की रूपरेखा

समय : 3 घण्टे
कुल अंक : 70
सी. सी. ई : 30
भाग -क (पाठ्य पुस्तक के 1 से 18 तक पाठ) 32
नोट : पहले दो प्रश्नों का उत्तर हिन्दी या पंजाबी या अंग्रेज़ी में दिया जा सकता है । तीन गद्यांश दिए जाएं जिनमें से दो का अनुवाद करने को कहा जाए । तीन पद्य दिए जाएं जिनमें से दो का प्रसंग सहित अर्थ लिखने को कहा जाए। पाठों के अभ्यासों में से चार प्रश्न हिन्दी में पूछे जाएं , जिनमें से दो का उत्तर हिन्दी $2 \times 2=4$ में लिखने को कहा जाए ।

$$
\text { संस्कृत में चार लघु प्रश्न दिए जाएं , जिनमें से दो का उत्तर संस्कृत में लिखने को } 2 \times 2=4
$$ कहा जाए।

पाठों के अभ्यासों में से छ: संस्कृत शब्द दिए जाएं ,जिनमें से चार शब्दों का हिन्दी में अर्थ लिखने को कहा जाए।
6 पाठों के अभ्यासों में से छ: रिक्त स्थान पूर्ति के वाक्य दिए जाएं जिनमें से चार रिक्त स्थानों की पूर्ति करने को कहा जाए।
अथवा

अथवा
पाठों के अभ्यासों में से यथानिर्दिष्ट परिवर्तन के छ: वाक्य दिए जाएं जिनमें से चार वाक्यों में परिवर्तन करने को कहा जाए।

7 (क) नाटक भाग में से दो अंश दिए जाएं जिनमें से एक का प्रसंग सहित अर्थ हिन्दी या पंजाबी या अंग्रेजी लिखने को कहा जाए। प्रसंग के 2 अंक तथा अर्थ के 2 अंक है।
(ख) नाटक के अभ्यासों में से चार प्रश्न हिन्दी में पूछे जाएं , जिनमें से दो का उत्तर हिन्दी में लिखने को कहा जाए।
(क) पाठयकम में दिए गये शब्द रूपों में से छ: शब्दों के रूप किसी एक विभक्ति के तीनों वचनों में पूछे जायं जिनमें से केवल चार शब्दों के रूप लिखने हों ।
(ख) पाठयकम में दिए गये धातु रूपों में से छ: धातुओं के रूप किसी एक लकार के $4 \times 1 \frac{1}{2}=6$ एक पुरुष के तीनों वचनों में पूछे जायं जिनमें से केवल चार धातुऑं के रूप लिखने हों ।
(ग ) पाठयकम में से पाँच वाक्य अशुद्धिधयाँ दी जायं जिनमें से तीन वाक्यों को शुद्ध करने को कहा जाये ।

अथवा
वाच्य परिर्वर्तन के पाँच वाक्य दिए जाएं जिनमें तीन वाक्य हल करने को कहा जाए। $3 \times 1=3$
9 (क) पाठ्यकम में दिए गए समासों से संबंधित छ: समस्त पद दिए जाएं जिनमें से तीन का विग्रह करने को कहा जाए।

## (ख) पाठ्यकम में दी गई सन्धियों में से सात सन्धि विच्छेद दिये जाएं जिनमें से चार करने को कहा जाए।

## अथवा

पाठ्यकम के अनुसार सात धातुआं के साथ कृदन्त प्रत्यय लगाने के लिए दिए जाएं जिनमें से चार करने को कहा जाए।

पाठ्यकम के अनसार सात
के रूप बनाने के लिए दिए जाएं जिना साथ क्वा प्रत्यय के रूप तथा ल्यप् प्रत्यय
(ग) पाठ्यकम में से पाँच शब्दों के साथ तुलनात्मक प्रत्यय या तद्वधित प्रत्यय या स्त्री प्रत्यय लगाने को दिये जायें जिनमें से तीन करने को कहा जाए

पाठ्य- पुस्तक के अनुवाद भाग में से हिन्दी के आठ वाक्य दिए जाएं जिनमें से

## वंथिधिटन मर्मशिम

( वाभागटीं नेट्टी)
यूम़त Чॅउठ टी घटउठ







| लइी <br> б | भयिभगप्टि Eा ठi' | वॅल भृव | 1 भंवां <br> द्ले <br> पूमू | 2 भீवां हाले यूम्नठ | $\begin{aligned} & 4 \text { भंवं हाले } \\ & \text { पूम्नत } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1. |  | 5 | 1 | - | 1 |
| 2. | वंम्मटेंटम, हैठीपेपष्ठक्ष भ | 3 | 1 | 1 | - |
| 3. | ЄЧठेटठम भुड भैवमयूप्सत | 5 | 1 | - | 1 |
| 4. | वंटठँल ढएँ (उग्ठ 1) | 3 | 1 | 1 | - |
| 5. | वंटठल ढलू (उग्ठ 2) | 3 | 1 | 1 | - |
| 6. | भैगेम (डाठा 1) | 3 | 1 | 1 | - |
| 7. | भेगेम (उग्ठा 2) | 3 | 1 | 1 | - |
| 8. |  | 5 | 1 | - | 1 |
|  |  | 30 | 8 | 5 | 3 |
| यர्ठ-वूभ |  |  |  |  |  |

भभां : 3 జీटे
लिधठी : 30 भंव
मी. मी.टी. : 30 भंव
यूजना : 40 भंव
वॅल : 100 भंव

1. हमदीं वङग्म टी ट्रणग्पी







ब्डाभवर
मी (C) उग्ना टे दिम्रेम्न लॅडट
मी (C) fिंठु नॅट : भैमकेч fिंठु, दृप्पीट मथेम वचैबटठ

मी (C) प्वाठग्भ सा वंयम्टील भडे लाठा वठठ भैछीटठ टी टठउ


 भैगार्निविीटिंत
2. वांमटैंटम, दैठीपेषलक्त भडे छा्टा टाप्टीयम

ड्रॉिवा
वंमूटैंटम/म़ग्पर्वरि : मी (C) वं्मटैंट टीभां टा्टीयम
 हैठीपेपष्ण टिछ वांमटैंट मटँठ वठरा


 भ̄ठीढग्टित क्षां व्भभा्टीढग्टीठ
4 Gथवेटठम भडे भैवमयूप्नत
ड़्डमिवा
 Hierarchical order)


5. बंटठल ढल̈ (उग्वा 1)

ड़िभर
चिमिक्तर मेनिंठ मटेटभैंट : पिढ मटेटभैंट (if statement), पिढ भ्भैलम मटेटभैंट (if else)
महिछ मटेटभैंट, घूेव मटेटभैंट, हिगउठ मटेटभैंट
6. वंटすँल ढले (डगा 2)

ड़्डॉिव
 Statement loop)
7. भैगेम (डगा 1)

ड़्डभिवा


भैठे वप्धी वठठी,

भेठे भैषीभैंटम सा पूघंयठ
8. भैवेम (डग्वा 2)

ड़्डॉिव



मटेटभैंट टा पितीमिजल्मप्टीक्षेम्न
भैभवी टिछ चं इाप्टीभैठम्तठल भिठे भैलीभिंटम





## 9. छैमवटाॅ यघूर्यकी़िठा



fि्रिटिंठ से उठीवे भr.ढमैट fिथिटिंत, लेक्ञठ fिथिटिंता
ढ̄ंटम
ढठेन

छैमवटाॅ यघম
इ'ब्रभेंट पल्लेर्मिठ


##  <br> भवाद्ट्टी हीगां (पूर्जनी यूीिभभ)

मभां-3 ひ̛टे
भंव -4
यूौिभा लप्टी भंव हंड गेठ लिधे भर्टमग्ठ Јेडेनी:

| नैवम़ - पे | टाप्टिद्र- \#म | 5 |
| :---: | :---: | :---: |
| नैवम़र - पी | विरग्ठउ ढर्पपष्ट | 5 |
| मैवम़क - मी | हॅटे पूठगण | 10 |
| मैवम़र - इी | टॅडे प్లाठग | 20 |


 टे घग्ड हटे भाविभग्म Јट्टो।

$$
1 \times 5=5 \text { भीव }
$$




$2 \times 5=10$ भீव

 मैटठ वठवे टेटेगा।
$2 \times 10=20$ भீव

1. ट्गठम्टी

भैवमल

भैष.टी भैभ भैष
भम्टीवठमँढट भमैम : इा्टा मेपठा, भमैम छाट्टाप्देम से भम्वक्षेवट
2. 'मी' यैठाठग

भेछीटठ टी टठऊं




वंटळँ ढल (डग्ला 1)
इिमिक्तर मेविंठा मटेटभैंट : पिढ मटेटभैंट(if statement), पिढ भैलम मटेटभेंट (if else)
महिध मटेटभैंट
घूव मटेटभैंट
तिठउउ मटेटभैंट
4. वंटवल ढलँ (डगा 2)

ढाठ मटेटभैंट हूप (For Statement loop)
5. भैगेम (डगा 1)

भैठे टिछ इा्टा पूट्टेम्न वठठा
भैठे वप्पी वठठी
भेठे से भ్लां टी पత̃ंच वठठी


8. भेवेम (डग्वा 2)



9. छैमवटाथ यप्षहिमिंग

fिथिटिठा से उठीवे : भा.ढमैट fिथिटिठा, ढ्रटठ fिथिटिंग
ढैंटम
ढठेन
थेक्ष लम्भण्छिट
इएब్టभेंट यर्लैर्टिठा


