AMRIT INDO CANADIAN ACADEMY

CLASS – XI

ENGLISH

SECTION – A(20 Marks)

READING COMPREHENSION

There shall be **two unseen passages (including poems)** with a variety of questions like Very Short Answer Questions, Short Answer Questions and Multiple Choice Questions, including 04 marks for vocabulary such as word formation and inferring meaning. Multiple Choice Questions(1x6=6marks), Very Short Answer Questions(1x6= 6marks), 01 Short Answer Questions(1x3=3marks), 01 Long Answer Question (1x5=5marks)

The total range of the 2 passages including a poem or a stanza, should be around 900-1000 words as per the following details:
1. The passage of 550-600 words in length will be used for note-making and summarising.

2. The passage of 350-400 words in length will be used to test comprehension, interpretation and inference.

3. An unseen poem of about 28-35 lines. The passages as given above could be of any one of the following types:

Factual passages, e.g., illustrations, description, reports / **Discursive passages** involving opinion, e.g., argumentative, persuasive/**Literary passages** e.g. extracts from fiction, biography, autobiography, travelogue, etc. In the case of a poem, the text may be shorter than the prescribed word limit.

SECTION B(30 Marks)

WRITING SKILLS AND GRAMMAR

Short Answer Questions: Based on notice/ poster/ advertisement- **4 Marks**
Long Answer Questions: Letters based on verbal/visual input. **– 6 Marks**
It would cover all types of letters. Letter types may include:

(a) business or official letters (for making enquiries, registering complaints, asking for and giving information, placing orders and sending replies)

(b) letters to the editor (giving suggestions/opinions on an issue)

(c) application for a job with a bio-data or resumé

(d) letter to the school or college authorities, regarding admissions, school issues, requirements / suitability of courses, etc.

Very Long Answer Question: Composition in the form of article/speech/report writing or a narrative- **10 Marks**

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GRAMMAR Different grammatical structures in meaningful contexts will be tested. Item types will include gap filling, sentence re-ordering, dialogue completion and sentence transformation. The grammar syllabus will include determiners, tenses, clauses, modals and Change of Voice. These grammar areas will be tested through 10 **Very short answer type questions on the following:**

A. Error Correction, editing tasks

B. Re - ordering of sentences,

C. Transformation of sentences

SECTION C(30 Marks) LITERATURE

Questions from the following texts to test comprehension at different levels , like literal, inferential and evaluative:-

1. **Hornbill:** Textbook published by NCERT, New Delhi

2. **Snapshots:** Supplementary Reader published by NCERT, New Delhi

3 Very Short Answer Questions out of four (2 questions should be from Hornbill) - Based on an extract from poetry to test reference to context comprehension and appreciation. **– (1x3=3 Marks)**
3 Short Answer Questions out of four (2 questions should be from Hornbill) - Based on prose, poetry and plays from both the texts.**(3x3=9Marks)**

One Long Answer Question out of two from Hornbill (to be answered in120-150 words) Based on prescribed texts to test global comprehension and extrapolation beyond the texts . **6 Marks**

One Long Answer Questions out of two from Snapshots (to be answered in120-150 words) -Based on theme, plot, incidents or events to test global comprehension and extrapolation beyond the texts. **6 Marks**

One Long Answer Question out of two from Hornbill (to be answered in120-150 words) - Based on understanding appreciation, analysis and interpretation of the characters/events/episodes/incidents . **6 Marks**

Assessment of Listening and Speaking Skills 20 marks
Assessment of Listening and Speaking Skills will be for 20 mark**s.** It is recommended that listening and speaking skills should be regularly practiced in the class

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April Hornbill: The Portrait Of A Lady Poem: A Photograph Snapshots: The Summer Of The Beautiful White Horse Grammar: Determiners Writing Skills: letter to Editor, Notice writing Reading Section: Unseen Passage
May Hornbill: We're not Afraid to Die if we can all be together Snapshots: The Address Writing skills: Article writing Reading Section: Note-Making Grammar: tenses
July Hornbill: Discovering Tut: The saga continues,landscape of the soul Poem: The voice of the rain Snapshots: ranga's marriage Grammar: clauses, modals Writing skills: speech writing, report writing
August Hornbill: The Ailing Planet ,The adventure Poem: Childhood Snapshots: Albert Einstein at school Grammar: Active Passive Writing Skills: Advertisements, Poster Writing
September Revision & First Term examination
October Hornbill: The Browning Version Poem: Father to Son Snapshots- The Ghat of the only world Grammar: sentence transformation Writing Skills: Application for a job, Official letters for making enquiries, Registering Complaints
November Hornbill- Laburnum Top,Silk Road Snapshots: mother's day

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Grammar: Rearranging sentences,Reordering of Sentences Writing skills: Business letters for asking information and placing orders
December Snapshots: birth , the tale of the melon city Grammar: Sentence Transformation Writing Skills: Letters for sending replies, Letters to school / college authorities regarding admission / school issues / requirements
January: Revision

GEOGRAPHY

Part A: Fundamentals of Physical Geography

APRIL

Unit-1: Geography as a Discipline

- Geography as an integrating discipline, as a science of spatial attributes.
- Branches of Geography; PhysicalGeography and Human Geography.
- Scope and Career Options

MAY

Unit-2: The Earth

- Origin and evolution of the earth; Interior of the earth.
- Wegener's continental drift theory and plate tectonics.
- Earthquakes and volcanoes: causes, types and effects.

JULY

Unit-3: Landforms

- Rocks: major types of rocks and their characteristics.
- Landforms and their evolution.
- Geomorphic processes: weathering, mass wasting, erosion and deposition; soil-formation.

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Unit 4: Climate

- Atmosphere- composition and structure;elements of weather and climate.
- Insolation-angle of incidence and distribution; heat budget of the earth-heating and cooling of atmosphere (conduction, convection, terrestrial radiation and advection); temperature- factors controlling temperature; distribution of temperature-horizontal and vertical; inversion of temperature.
- Pressure-pressure belts; winds-planetary, seasonal and local; air masses and fronts; tropical and extratropical cyclones.
- Precipitation-evaporation; condensation-dew, frost,fog, mist and cloud; rainfall-types and world distribution.
- World climates-classification (Koeppen and Thornthwaite), Global warming and climatic changes.
- Climate and Global Concerns.

AUGUST

Unit 5: Hydrosphere

- Basics of Oceanography
- Oceans - distribution of temperature and salinity.
- Movements of ocean water-waves, tides and currents; submarine reliefs.
- Ocean resources and pollution.

Unit 6: Biosphere

- Biosphere - importance of plants and other organisms; biodiversity and conservation; ecosystem and ecological balance.

Map work on identification of features based on 1 to 6 units on the outline/Physical/Political map of the world.

Part - B: India - Physical Environment

Unit-7: Introduction

- Location, space relations, India's place in the world.

SEPTEMBER

Unit-8: Physiography

- Structure and Relief; Physiographic Divisions.
- Drainage systems: Concept of river basins, Watershed; the Himalayan and the Peninsular rivers.

Unit-9: Climate, Vegetation and Soil

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- Weather and climate - spatial and temporal distribution of temperature, pressure winds and rainfall, Indian monsoon: mechanism, onset and withdrawal, variability of rainfalls: spatial and temporal; use of weather charts; Climatic types (Koeppen).
- Natural vegetation-forest types and distribution; wild life; conservation; biosphere reserves.
- Soils - major types (ICAR's classification) and their distribution, soil degradation and conservation.

OCTOBER

Unit-10: Hazards and Disasters: Causes, Consequences and Management

- Floods, Cloudbursts
- Droughts: types and impact
- Earthquakes and Tsunami
- Cyclones: features and impact
- Landslides

Map Work of features based on above units for locating and labelling on the Outline/Political/Physical map of India.

Part - C: Practical Work

Unit-1: Fundamentals of Maps

- Geo spatial data, Concept of Geographicaldata matrix; Point, line, area data.
- Maps - types; scales-types; construction of simple linear scale, measuring distance; finding direction and use of symbols.
- Map projection - Latitude, longitude and time, typology, construction and properties of projection: Conical with one standard parallel and Mercator's projection. (only two projections)

Unit 2: Topographic and Weather Maps

- Study of topographic maps (1:50,000 or 1:25,000 Survey of India maps); contour cross section and identification of landforms-slopes, hills, valleys, waterfall, cliffs; distribution of settlements.
- Aerial Photographs: Types and Geometry-vertical aerial photographs; difference between maps and aerial photographs; photo scale determination. Identification of physical and cultural features.
- Satellite imageries, stages in remote sensing data-acquisition, platform and sensors and data products, (photographic and digital).
- Use of weather instruments: thermometer, wet and dry-bulb thermometer, barometer, wind vane, rain gauge.

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POLITICAL SCIENCE

PART - A Indian constitution at work (NCERT)
PART - B Political theory (NCERT)

APRIL (Part A) Ch. 1 Constitution why and how and philosophy of the constitution.
MAY (Part A) Ch. 2 Rights in the Indian constitution
Ch. 3 Elections and representation
Ch. 4 The executive
JUNE SUMMER VACATIONS
JULY Ch. 5 The legislature (Political map of India)
Ch. 6 The judiciary
(Part B) Ch. 1 Political theory
AUGUST (Part B) Ch. 2 Freedom
Ch. 3 Equality
Ch. 4 Social justice
Ch. 5 Rights
SEPTEMBER Term 1 exams
Part A Ch. 1 to 5
Part B Ch. 1 to 5
OCTOBER (Part A) Ch. 6 The judiciary
Ch. 7 Federalism
Ch. 8 Local government
NOVEMBER (Part B) Ch. 6 Citizenship
Ch. 7 Nationalism
Ch. 8 Secularism
DECEMBER (Part A) Ch. 9 Constitution as a living document
(Part B) Ch. 9 Peace

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Ch. 10 Development

JANUARY Revision

FEBRUARY Pre - board and final exams

Term II

ECONOMICS

FOR APRIL MONTH
Statistics for Economics
Chapter-9(measures of central tendency-Arithmetic Mean)

FOR MAY MONTH
Chapter-10(measures of central tendency-Median and Mode)
Chapter-11(measures of dispersion)
Chapter-12(Correlation)
Chapter-13(Index numbers)

FOR JUNE MONTH
Summer vacations

FOR JULY MONTH
Chapter-1(concept of Economics and significance of statistics in Economics)
Chapter-2(Collection of Data)
Chapter-3(Cences and Sample Methods of collection of data)
Chapter-4(Organization of data)
Chapter-5(Presentation of data-Textual and Tabular Presentation)

FOR AUGUST MONTH
Chapter-6(Diagrammatic Presentation of data, bar diagrams and Pie diagrams)
Chapter-7(frequency diagrams: Histogram, Polygon and Ogive
Chapter-8(Arithmetic Line-Graphs or Time series Graphs)
Introductory Micro Economics
Chapter-1(Economics & Economy)

FOR SEPTEMBER MONTH
S1 Exams

FOR OCTOBER MONTH
Chapter-2(Central problems of an Economy)

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Chapter-3(Consumer's Equilibrium - Utility Analysis)
Chapter-4 (Consumer's Equilibrium - Indifference curve Analysis)
Chapter-5 (Theory of Demand)
Chapter-6 (Price Elasticity of Demand)

FOR NOVEMEBER MONTH
Chapter-7(Production function and Returns to a factor)
Chapter-8(Concepts of Cost)
Chapter-9(Concepts of Revenue)
Chapter-10(Producer's Equilibrium)

FOR DECEMBER MONTH
Chapter-11(Theory of Supply)
Chapter-12(Forms of Market)
Chapter-13(Market Equilibrium under perfect competition and effects of shifts in Demand and Supply)

ACCOUNTS

FOR APRIL MONTH:

Chapter - 2 (Basic Account Terms)

Chapter - 5 (Accounting Equation)

FOR MAY MONTH:

Chapter - 1 (Introduction to Account)

Chapter - 3 (Theory base of Accounting).

Accounting standards and

International Financial Reporting

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Standards)

Chapter - 4 (Base of Accounting

Chapter - 6 (Rules of Debit and Credit)

Introduction of GST

Chapter - 8 (Journal)

FOR JUNE MONTH:

Summer Vacations

FOR JULY MONTH:

Chapter - 7 (Source Documents and Preparation of Vouchers)

Chapter - 13 (Trial Balance)

Chapter - 12 (Bank Reconciliation Statements)

FOR AUGUST MONTH:

Chapter - 9 (Special Purpose Book - 1 Cash Book)

Chapter - 10 (Special Purpose Books - 2 Other Book)

Chapter 15 (Provisions and Reserves)

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FOR SEPTEMBER MONTH:

SA-1 Exams

FOR OCTOBER MONTH:

Chapter - 14 (Depreciation)

Chapter - 16 (Bills of Exchange)

FOR NOVEMBER MONTH :

Chapter -18 (Financial Statements of Sole Proprietorship)

Chapter - 19 (Adjustments in preparation of Financial Statements)

FOR DECEMBER MONTH :

Chapter - 20 (Accounts for Incomplete Records - Single Entry System

Chapter - 17 (Rectification of Error)

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BUSINESS STUDIES

Month	Topic	Activity
April	Unit -1: Nature and purpose of business	Discussion
May	Unit-II: Forms of business organization Unit-III: Public enterprise	Power point presentation in groups
June	Vacations	Assignments
July	Unit-III: Private and global enterprise Unit-IV: Business services	Assignments
August	Unit-V: Emerging modes of business	Web based exercises
September	FIRST TERM EXAM	
October	Unit-VI: Social responsibility of business and business ethics Unit-VIII: Small business	Case studies
November	Unit-VII: Sources of business and finance	Assignments
December	Unit-IX: Internal trade	Case studies
January	Unit-X: International trade **Pre board exam**	Group discussion
February	Revision	

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MATHEMATICS

UNIT I: SETS AND FUNCTIONS

April

1. Sets (Periods 12)

Sets and their representations. Empty set. Finite and 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 and Functions(Periods 14)

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

May

3. Trigonometric Functions (Periods 18)

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 $\sin(x+y)$ and $\cos(x+y)$ in terms of $\sin x$, $\sin y$, $\cos x$ and $\cos y$. Deducing the identities like following:

$= \tan x \pm \tan y$,$\cot(x \pm y) = \cot x \cot y \square 1 \tan(x \pm y)$ $1\square \tan x \times \tan y \cot y \pm \cot x$

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$$\sin x + \sin y = 2\sin\frac{x+y}{2}\cdot\cos\frac{x-y}{2}, \quad \cos x + \cos y = 2\cos\frac{x+y}{2}\cos\frac{x-y}{2}$$

$$\sin x - \sin y = 2\cos\frac{x+y}{2}\cdot\sin\frac{x-y}{2}, \quad \cos x - \cos y = -2\sin\frac{x+y}{2}\sin\frac{x-y}{2}$$

Identities related to sin2*x,* cos2*x,* tan2*x,* sin3*x,* cos3*x* and tan3*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.

UNIT II : ALGEBRA

1. Principle of Mathematical Induction (Periods 06)

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.

July

2. Complex Numbers and Quadratic Equations (Periods 10)

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.

3. Linear Inequalities (Periods 10)

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 - graphially.

4. Permutations and Combinations (Periods 12)

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

August

5. Binomial Theorem (Periods 08)

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

6. Sequence and Series (Periods 10)

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* terms of the special series : $\sum n$, $\sum n^2$ and $\sum n^3$

UNIT III : COORDINATE GEOMETRY

1. Straight Lines (Periods 09)

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, slope-intercept form, two-point form, intercepts 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.

September

Mid term exams

October

2. Conic Sections (Periods 12)

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

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3. Introduction to Three-dimensional Geometry (Periods 08)

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

UNIT IV : CALCULUS

Limits and Derivatives (Periods 18)

Derivative introduced as rate of change both as that of distance function and geometrically,

$$\log^{e}(1+x)\ e^{x}-1 \text{ intuitive idea of limit. } \lim_{x\to 0}\frac{\log^{e}(1+x)}{x},\ \lim_{x\to 0}\frac{e^{x}-1}{x} \text{ . Definition of derivative, relate it to slope}$$

of tangent of the curve, derivative of sum, difference, product and quotient of functions. Derivatives of polynomial and trigonometric functions.

November

UNIT V: MATHEMATICAL REASONING (Periods 08)

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 words - difference between contradiction, converse and contrapositive.

UNIT VI : STATISTICS AND PROBABILITY

1. Statistics (Periods 10)

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

2. Probability(Periods 15)

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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

December practice test

January revision work

February final exams

ALCA

BIOLOGY

The present syllabus provides the students with new concepts along with an extended exposure to contemporary areas of the subject. The syllabus also aims at emphasizing on the underlying principles that are common to both animals and plants as well as highlighting the relationship of Biology with other areas of knowledge. The format of the syllabus allows a simple, clear and sequential flow of concepts. The syllabus also stresses on making better connections among biological concepts. It relates the study of biology to real life through the use of technology. It links the discoveries and innovations in Biology to everyday life such as environment, industry, health and agriculture. The updated syllabus also focuses on reducing the curriculum load while ensuring that ample opportunities and scope for learning and appreciating basic concepts of the subject continue to be available within its framework. The prescribed syllabus is expected to:

- promote understanding of basic principles of Biology;
- encourage learning of emerging knowledge and its relevance to individual and society;
- promote rational/scientific attitude towards issues related to population, environment and development;
- enhance awareness about environmental issues, problems and their appropriate solutions;
- create awareness amongst the learners about diversity in the living organisms and developing respect for other living beings;

BIOLOGY (Code No. 044)
COURSE STRUCTURE
CLASS XI (2017-18)

(THEORY)

Time: 3 Hours **Max. Marks: 70**

Unit	Title	No. of Periods	Marks
I	Diversity of Living Organisms	23	7
II	Structural Organisation in Plants and Animals	22	12
III	Cell: Structure and Function	35	15
IV	Plant Physiology	40	18
V	Human Physiology	40	18
	TOTAL	160	70

APRIL

Chapter-1: The Living World What is living? Biodiversity; Need for classification; three domains of life; taxonomy and systematics; concept of species and taxonomical hierarchy; binomial nomenclature; tools for study of taxonomy-museums, zoological parks, herbaria, botanical gardens.

Chapter-2: Biological Classification Five kingdom classification; Salient features and classification of Monera, Protista and Fungi into major groups: Lichens, Viruses and Viroids.

Chapter-3: Plant Kingdom Salient features and classification of plants into major groups - Algae, Bryophyta, Pteridophyta, Gymnospermae and Angiospermae (three to five salient and distinguishing features and at least two examples of each category); Angiosperms - classification upto class, characteristic features and examples.

MAY

Chapter-4: Animal Kingdom Salient features and classification of animals non-chordates up to phyla level and chordates up to class level (three to five salient features and at least two examples of each category).

Chapter-5: Morphology of Flowering Plants Morphology and modifications: Tissues

Chapter-6: Anatomy of Flowering Plants Anatomy and functions of different parts of flowering plants: root, stem, leaf, inflorescence, flower, fruit and seed (to be dealt along with the relevant experiment of the Practical Syllabus).

JUNE

Chapter-7: Structural Organisation in Animals Animal tissues: Morphology, anatomy and functions of different systems (digestive, circulatory, respiratory, nervous and reproductive) of an insect (cockroach). (a brief account only)

JULY

Chapter-8: Cell-The Unit of Life Cell theory and cell as the basic unit of life: Structure of prokaryotic and eukaryotic cells; Plant cell and animal cell; cell envelope; cell membrane, cell wall; cell organelles - structure and function; endomembrane system, endoplasmic

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reticulum, Golgi bodies, lysosomes, vacuoles; mitochondria, ribosomes, plastids, microbodies; cytoskeleton, cilia, flagella, centrioles (ultrastructure and function); nucleus, nuclear membrane, chromatin, nucleolus.

Chapter-16: 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 values of proteins, carbohydrates and fats; egestion; nutritional and digestive disorders - PEM, indigestion, constipation, vomiting, jaundice, diarrhoea.

Chapter-17: Breathing and Exchange of Gases 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 volume; disorders related to respiration - asthma, emphysema, occupational respiratory disorders

AUGUST

Chapter-11: Transport in Plants

Movement of water, gases and nutrients; cell to cell transport, Diffusion, facilitated diffusion, active transport; plant-water relations, Imbibition, water potential, osmosis, plasmolysis; long distance transport of water - Absorption, apoplast, symplast, transpiration pull, root pressure and guttation; transpiration, opening and closing of stomata; Uptake and translocation of mineral nutrients - Transport of food, phloem transport, massflow hypothesis; diffusion of gases. **Chapter-16: 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 values of proteins, carbohydrates and fats; egestion; nutritional and digestive disorders - PEM, indigestion, constipation, vomiting, jaundice, diarrhoea.

Chapter-12: 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.

SEPTEMBER

Revision + Mid-term examination

OCTOBER

Chapter-13: Photosynthesis in Higher Plants Photosynthesis as a mean of autotrophic nutrition; site of photosynthesis, pigments involved in photosynthesis (elementary idea); photochemical and biosynthetic phases of photosynthesis; cyclic and non cyclic photophosphorylation; chemiosmotic hypothesis; photorespiration; C3 and C4 pathways; factors affecting photosynthesis.

Chapter-17: Breathing and Exchange of Gases 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 volume; disorders related to respiration - asthma, emphysema, occupational respiratory disorders.

Chapter-14: Respiration in Plants 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.

Chapter-9: Biomolecules Chemical constituents of living cells: biomolecules, structure and function of proteins, carbohydrates, lipids, nucleic acids, enzymes, types, properties, enzyme action.

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Chapter-10: Cell Cycle and Cell Division Cell cycle, mitosis, meiosis and their significance.

NOVEMBER

Chapter-18: 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.

Chapter-15: Plant - Growth and Development Seed germination; phases of plant growth and plant growth rate; conditions of growth; differentiation, dedifferentiation and redifferentiation; sequence of developmental processes in a plant cell; growth regulators - auxin, gibberellin, cytokinin, ethylene, ABA; seed dormancy; vernalisation; photoperiodism.

Chapter-19: 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.

DECEMBER

Chapter-20: Locomotion and Movement Types of movement - ciliary, flagellar, muscular; skeletal muscle- contractile proteins and muscle contraction; skeletal system and its functions; joints; disorders of muscular and skeletal system - myasthenia gravis, tetany, muscular dystrophy, arthritis, osteoporosis, gout.

Chapter-21: 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; sensory perception; sense organs; elementary structure and functions of eye and ear.

Chapter-22: Chemical Coordination and Integration 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; dwarfism, acromegaly, cretinism, goiter, exophthalmic goiter, diabetes, Addison's disease.

PRACTICALS

A. List of Experiments

1. Study and description of three locally available common flowering plants, one from each of the families Solanaceae, Fabacceae and Liliaceae including dissection and display of floral whorls, anther and ovary to show number of chambers (floral formulae and floral diagrams). 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 of osmosis by potato osmometer.
4. Study of plasmolysis in epidermal peels (e.g. Rhoeo leaves).
5. Study of distribution of stomata in the upper and lower surface of leaves.

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6. Comparative study of the rates of transpiration in the upper and lower surface of leaves.
7. Test for the presence of sugar, starch, proteins and fats. Detection in suitable plant and animal materials.
8. Separation of plant pigments through paper chromatography.
9. Study of the rate of respiration in flower buds/leaf tissue and germinating seeds.
10. Test for presence of urea in urine.
11. Test for presence of sugar in urine.
12. Test for presence of albumin in urine.
13. Test for presence of bile salts in urine.

B. Study/observation of the following (spotting)

1. Study of the parts of a compound microscope.
2. Study of the specimens/slides/models and identification with reasons - Bacteria, Oscillatoria, Spirogyra, Rhizopus, mushroom, yeast, liverwort, moss, fern, pine, one monocotyledonous plant, one dicotyledonous plant and one lichen.
3. Study of virtual specimens/slides/models and identification with reasons - Amoeba, Hydra, liverfluke, Ascaris, leech, earthworm, prawn, silkworm, honeybee, snail, starfish, shark, rohu, frog, lizard, pigeon and rabbit.
4. Study of tissues and diversity in shapes and sizes of plant and animal cells (palisade cells, guard cells, parenchyma, collenchyma, sclerenchyma, xylem, phloem, squamous epithelium, muscle fibers and mammalian blood smear) through temporary/permanent slides.
5. Study of mitosis in onion root tip cells and animals cells (grasshopper) from permanent slides. 6. Study of different modifications in roots, stems and leaves.
7. Study and identification of different types of inflorescence (cymose and racemose).
8. Study of imbibition in seeds/raisins.
9. Observation and comments on the experimental set up for showing: a) Anaerobic respiration b) Phototropism c) Effect of apical bud removal d) Suction due to transpiration
10. Study of human skeleton and different types of joints with the help of virtual images/models only.
11. Study of external morphology of cockroach through virtual images/models.

Prescribed Books:

1. Biology Class-XI, Published by NCERT
2. Other related books and manuals brought out by NCERT (consider multimedia also)

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CHEMISTRY

APRIL – 2018

UNIT 2- UNIT 4

BASIC FUNDAMENTAL CHEMISTRY - A BRIEF INTRODUCTION

ATOMIC STRUCTURE AND THE ORBITAL CONCEPT BY DIFFERENT SCIENTISTS

QUANTUM THEORY, ELECTRON PARTICLE AND WAVE NATURE

CONCEPT OF MAGNETIC BEHAVIOUR OF ELECTRONS

MAY-2018

UNIT 4 - UNIT 12- UNIT 13

CHEMICAL BONDING AND THE NATURE OF BONDS

TYPES OF BONDING

CONCEPTS FOR CO-ORDINATING COMPOUNDS ELECTRON EXPANSION CONCEPT

SHAPES AND STRUCTURE OF COMPOUNDS. HYBRIDIZATION AND THEIR STRUCTURE

VSEPR THEORY, V.B.T, MOLECULAR ORITAL THEORY

INTRODUCTION TO THE ORGANIC CHEMISTRY

IUPAC NAMING OF THE CARBON COMPOUNDS

AROMATIC STRUCTURES AND THER CLASSIFICATION

JUNE -2018

SUMMER VACATION

JULY-2017

AICA

UNIT–9, UNIT-10, UNIT-7

HYDROGEN

S-BLOCK ELEMENTS

EQUILIBRIUM

AUGUST – 2018 - SEPTEMBER – 2018

UNIT-6, UNIT-3, UNIT 8

THERMODYNAMICS

CLASSIFICATION OF ELEMENTS AND PERIODICITY IN PROPERTIES

REDOX REACTION

OCTOBER – DECEMBER 2018

UNIT-11, UNIT 13, UNIT 14

SOME – P BLOCK ELEMENTS

HYDROCARBONS

ENVIRONMENTAL CHEMISTRY

STATES OF MATTER

PRACTICALS –

APRIL – MAY

DETERMINATION OF MELTING POINT OF ORGANIC COMPOUND.

BENDING A GLASS TUBE

- **QUANTITATIVE ACID BASE ESTIMATION**
- **PREPRATION OF STANDARD SOLUTION OF OXALIC ACID AND SODIUM CARBONATE**
- **DETERMINATION OF STRENGTH OF NAOH AND HCL SOLUTION**

JULY- SEPTEMBER

AICA

- **PURIFICATION OF CHEMICALS**
- **CRYSTALLIZATION OF IMPURE SAMPLE OF CuSO4**
- **pH EXPERIMENTS**
- **QUALITATIVE ANALYSIS**
- **DETECTION OF S , N AND HALOGENS IN ORGANIC COMPOUND**

OCTOBER – NOVEMBER

- **SALT ANALYSIS**
- **DETERMINATION OF ONE CATION AND ONE ANION IN GIVEN SALT.**

PHYSICS

APRIL-MAY

Chapter: Mathematical tools

Unit I: Physical World and Measurement

Chapter 1: Physical world

Chapter 2: Units and measurements

Unit II: Kinematics

Chapter 3: Motion in a straight line

Chapter 4: Motion in a plane

JUNE

SUMMER VACATION

JULY-AUGUST

Unit III: Laws of Motion

Chapter 5: Laws of motion

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Unit IV: Work, Energy and Power

Chapter 6: Work ,energy and power

Unit V: Motion of System of Particles and Rigid Body

Chapter 7: System of particles and rotational motion

Unit VI: Gravitation

Chapter 8: Gravitation

SEPTEMBER –OCTOBER

Unit VII: Properties of Bulk Matter

Chapter 9: Mechanical properties of solids

Chapter 10: Mechanical properties of fluids

Chapter 11: Thermal properties of matter

Unit VIII: Thermodynamics

Chapter 12: Thermodynamics

Unit IX: Behaviour of Perfect Gases and Kinetic Theory of Gases

Chapter 13: Kinetic theory

NOVEMBER

Unit X: Oscillations and Waves

Chapter 14: Oscillations

Chapter 15: Waves

PRACTICALS

APRIL-MAY

Experiments based on Vernier Calliper and screw gauge

JULY-AUGUST

Experiments based on spherometer, simple pendulum and activities

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OCTOBER-NOVEMBER

Experiments based on young's modulus, specific heats, force constant and activities

DECEMBER

Experiments based on calorimeter and demonstrate experiments

1. **To measure diameter of a small spherical/cylindrical body and to measure internal diameter and depth of a given beaker/calorimeter using Vernier Callipers and hence find its volume.**
2. **To measure diameter of a given wire and thickness of a given sheet using screw gauge.**
3. **To determine volume of an irregular lamina using screw gauge.**
4. **To determine radius of curvature of a given spherical surface by a spherometer.**
5. **To determine the mass of two different objects using a beam balance.**
6. **To find the weight of a given body using parallelogram law of vectors.**
7. **Using a simple pendulum, plot its L-T2 graph and use it to find the effective length of second's pendulum.**
8. **To study variation of time period of a simple pendulum of a given length by taking bobs of same size but different masses and interpret the result.**
9. **To study the relationship between force of limiting friction and normal reaction and to find the co-efficient of friction between a block and a horizontal surface.**

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ਪੰਜਾਬੀ ਪਾਠਕ੍ਰਮ (ਗਿਆਰ੍ਹਵੀਂ ਜਮਾਤ ਲਈ)

ਨਿਰਧਾਰਿਤ ਪੁਸਤਕਾਂ:- 1. ਨਾਟਕ- ਰਿਸ਼ਤੇ (ਵਰਿਆਮ ਮਸਤ)
2. ਵਾਰਤਕ ਰਿਸ਼ਮਾਂ
3. ਕਾਵਿ-ਰੰਗ
4. ਪੰਜਾਬੀ ਸਾਹਿਤ ਅਤੇ ਵਿਆਕਰਨ

ਅਪਰੈਲ:- ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪਾਠਕ੍ਰਮ ਨਾਲ ਸੰਬੰਧਤ ਜਾਣਕਾਰੀ ਦਿੱਤੀ ਜਾਏਗੀ। ਨਿਰਧਾਰਿਤ ਪੁਸਤਕਾਂ ਤੇ ਵਿਚਾਰ ਚਰਚਾ ਕੀਤੀ ਜਾਏਗੀ। ਪ੍ਰਸ਼ਨ-ਪੱਤਰ ਦੀ ਰੂਪਰੇਖਾ ਵਿਚਾਰੀ ਜਾਏਗੀ। ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਵਿਸਤ੍ਰਿਤ ਰੂਪ ਲਈ ਮਾਨਸਿਕ ਤੌਰ ਤੇ ਤਿਆਰ ਕੀਤਾ ਜਾਏਗਾ।

ਮਈ:- ਨਾਟਕ ਰਿਸ਼ਤੇ- ਪੜ੍ਹਾਈ ਅਤੇ ਵਾਰਤਾਲਾਪ ਦੀ ਦੁਹਰਾਈ
ਵਿਆਕਰਨ- ਅਖਬਾਰਾਂ ਲਈ ਰਿਪੋਰਟ
ਰਿਸ਼ਮਾਂ- ਹੁਕਮਨਾਮਾ , ਕੀਰਤ ਤੇ ਮਿੱਠਾ ਬੋਲਣਾ
ਕਾਵਿ ਰੰਗ- ਸ੍ਰੀ ਗੁਰੂ ਰਾਮਦਾਸ ਜੀ
ਸਾਹਿਤ ਦੇ ਰੂਪ- ਅਲੰਕਾਰ (ਰੂਪਕ) ਪਿੰਗਲ ਦੀ ਪਰਿਭਾਸ਼ਾ।

ਜੂਨ:- ਗਰਮੀ ਦੀਆਂ ਛੁੱਟੀਆਂ

ਜੁਲਾਈ:- ਨਾਟਕ ਰਿਸ਼ਤੇ- ਵਿਸ਼ਾ-ਵਸਤੂ , ਪਲਾਟ , ਪਾਤਰ
ਵਿਆਕਰਨ- ਨਿਬੰਧ , ਲੇਖ , ਭਾਸ਼ਣ ਕਲਾ
ਰਿਸ਼ਮਾਂ- ਭੇੜ ਚਾਲ , ਹੱਸਣਾ ਤੇ ਕੂਕਣਾ
ਕਾਵਿ ਰੰਗ- ਗੁਰੂ ਗੋਬਿੰਦ ਸਿੰਘ ਜੀ
ਸਾਹਿਤ ਦੇ ਰੂਪ- ਰਸ (ਹਾਸ ਰਸ, ਸ਼ਿੰਗਾਰ ਰਸ , ਕਰੁਣਾ ਰਸ)

ਅਗਸਤ:- ਨਾਟਕ ਰਿਸ਼ਤੇ- ਪਾਤਰ ਉਸਾਰੀ (ਬੰਤਾ ਸਿੰਘ , ਪ੍ਰੇਮੀ , ਮਨਿੰਦਰ)
ਰਿਸ਼ਮਾਂ- ਨੌਜਵਾਨ ਇਸਤਰੀ ਤੇ ਮਰਦਾਂ ਨੂੰ , ਵਹਿਮ ਤੇ ਵਹਿਮੀ
ਕਾਵਿ ਰੰਗ- ਬੁੱਲ੍ਹੇ ਸ਼ਾਹ ,
ਸਾਹਿਤ ਦੇ ਰੂਪ- ਅਲੰਕਾਰ (ਉਪਮਾ) , ਅਖਾਣ:- ਓ- ਹ ਤੱਕ , ਸ਼ਬਦ ਸ਼ੁੱਧੀ।

ਸਤੰਬਰ:- ਛਿਮਾਹੀ ਪ੍ਰੀਖਿਆ ਦੀ ਦੁਹਰਾਈ

ਅਕਤੂਬਰ:- ਨਾਟਕ ਰਿਸ਼ਤੇ- ਪਾਤਰ ਉਸਾਰੀ (ਕਾਲਾ, ਪੀਤਾ , ਸੁੰਦਰ ਬਾਣੀਆ)
ਕਾਵਿ ਰੰਗ- ਵਾਰਸ ਸ਼ਾਹ , ਚਰਨ ਸਿੰਘ

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ਸਾਹਿਤ ਦੇ ਰੂਪ- ਛੰਦ (ਕੋਰੜਾ , ਕਬਿੱਤ) , ਵਾਰਤਕ , ਨਾਵਲ

ਨਵੰਬਰ:- ਨਾਟਕ ਰਿਸ਼ਤੇ- ਮੁੱਲ- ਪਰਖ ਪ੍ਰਸ਼ਨ

ਰਿਸ਼ਮਾਂ- ਘੱਤਮ ਚੌਧਰੀ , ਨੈਸ਼ਨਲ ਸਟੇਡੀਅਮ ਦੀਆਂ ਯਾਦਾਂ, ਮੁਆਫ਼ ਕਰਨਾ

ਕਾਵਿ ਰੰਗ- ਗਿੱਲ ਮੋਰਾਂਵਾਲੀ

ਸਾਹਿਤ ਦੇ ਰੂਪ- ਅਲੰਕਾਰ (ਅਨੁਪ੍ਰਾਸ) ਅਖਬਾਰ ਦੇ ਸੰਪਾਦਕ ਨੂੰ ਰਿਪੋਰਟ

ਦਸੰਬਰ:- ਰਿਸ਼ਮਾਂ- ਝੱਝੈ ਕਦੇ ਨਾ ਝੂਰੈ ਮੂੜੈ

ਕਾਵਿ ਰੰਗ- ਬਚਨ ਬੇਦਿਲ , ਜਗੀਰ ਮਾਣਕੀਆ

ਸਲਾਨਾ ਪ੍ਰੀਖਿਆ ਦੀ ਦੁਹਰਾਈ

PHYSICAL EDUCATION

APRIL

Unit-I : Changing Trends & Career In Physical Education

- Meaning & definition of Physical Education
- Aims & Objectives of Physical Education
- Changing trends in Physical Education
- Various Physical Education Courses available in India
- Career Options in Physical Education
- Soft skills required for different careers

MAY

Unit-II : Olympic Movement

- Ancient & Modern Olympics (Summer & Winter)
- Olympic Symbols, Ideals, Objectives & Values
- International Olympic Committee
- Indian Olympic Association
- Dronacharya Award, Arjuna Award & Rajiv Gandhi Khel Ratna Award
- Organisational set-up of CBSE Sports & Chacha Nehru Sports Award

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JUNE

SUMMER VACATION

JULY

Unit-III : Physical Fitness, Wellness & Lifestyle

- Meaning & Importance Of Physical Fitness, Wellness & Lifestyle
- Components of physical fitness
- Components of Health related fitness
- Components of wellness
- Preventing Health Threats Through Lifestyle Change
- Concept of Positive Lifestyle

Unit-IV : Physical Education & Sports for Differently Abled

- Aims & objectives of Adaptive Physical Education
- Organization promoting Adaptive Sports (Special Olympics Bharat; Paralympics; Deaflympics)
- Concept and need of Integrated Physical Education
- Concept of Inclusion, its need and Implementation
- Role of various professionals for children with special needs (Counsellor, Occupational Therapist, Physiotherapist, Physical Education Teacher, Speech Therapist & special Educator)

AUGUST

Unit-V : Yoga

- Meaning & Importance of Yoga
- Elements of Yoga
- Introduction - Asanas, Pranayam, Meditation & Yogic Kriyas
- Yoga for concentration & related Asanas (Sukhasana; Tadasana; Padmasana & Shashankasana)
- Relaxation Techniques for improving concentration – Yog-nidra

Unit-VI : Physical Activity & Leadership Training

- Introduction to physical activity & leadership
- Qualities & role of a Leader
- Behaviour change stages for physical activity (Pre-contemplation; Contemplation; Planning; Active; Maintenance)
- Creating leaders through Physical Education
- Meaning, objectives & types of Adventure Sports (Rock Climbing, Tracking, River Rafting, Mountaineering, Surfing and Para Gliding
- Safety measures during physical activity and adventure sports

SEPTEMBER

AICA

FIRST TERM EXAMINATION

OCTOBER

Unit-VII : Test, Measurement & Evaluation

- Define Test, Measurement & Evaluation
- Importance Of Test, Measurement & Evaluation In Sports
- Calculation Of BMI & Waist - Hip Ratio
- Somato Types (Endomorphy, Mesomorphy & Ectomorphy)
- Procedures Of Anthropomatric Measurement – Height, Weight, Arm & Leg Length

Unit-VIII : Fundamentals Of Anatomy & Physiology

- Define Anatomy, Physiology & Its Importance
- Function Of Skeleton System, Classification Of Bones & Types Of Joints
- Properties of Muscles
- Function & Structure Of Muscles
- Function & Structure Of Respiratory System, Mechanism of Respiration
- Structure Of Heart & Introduction To Circulatory System
- Oxygen debt, second-wind

NOVEMBER

Unit-IX : Kinesiology, Biomechanics & Sports

- Meaning & Importance of Kinesiology & Biomechanics In Phy. Edu. & Sports
- Levers & Its Types and its application in sports
- Equilibrium – Dynamic & Static And Centre Of Gravity and its application in sports
- Force – Centrifugal & Centripetal and its application in sports
- Introduction to Buoyancy Force

Unit-X : Psychology & Sports

- Definition & Importance Of Psychology In Phy. Edu. & Sports
- Define & Differentiate Between Growth & Development
- Developmental Characteristics At Different Stage Of Development
- Adolescent Problems & Their Management
- Define Learning, Laws Of Learning (Law of Readiness; Law of Effect & Law of Exercise) & Transfer Of Learning
- Plateau & causes of plateau
- Emotion: Concept, Type & Controlling of emotion

DECEMBER

Unit-XI : Training In Sports

- Meaning & Concept Of Sports Training
- Principles Of Sports Training

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- Warming up & limbering down
- Load, Symptoms of Over-load, Adaptation & Recovery
- Skill, Technique & Style
- Role of Free-play in the development of Motor Component

Unit-XII : Doping

- Concept & classification of doping
- Prohibited Substances & Methods
- Athletes Responsibilities
- Side Effects Of Prohibited Substances
- Ergogenic aids & doping in sports
- Doping control procedure

JANUARY

PRE-BOARD EXAMINATION &REVISION

FEBRUARY

REVISION

Practical

01. Physical Fitness (AAHPER) -	10 Marks
02. Skill of any one Individual Game of choice from the given list	10 Marks
03. Viva -	05 Marks
04. Record File	05 Marks

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FINE ARTS

APRIL

Pre Historic Rock Paintings and art of Indus Valley (2500 B.C to 1500 B.C)

Pre –Historic Rock Paintings Introduction :

(1) Period and Location
(2) Study of following Pre Historic Paintings:
  (i) A Roaring Animal ,Bhimbethaka
  (ii) Wizard 's Dance , Bhimbethaka

MAY

Art of Ajanta (Circa 2nd century BCE to 480 or 650 CE/AD)

Location and Period No of caves ,Chatiya and vihara, Painting and sculptures ,Subject matters and technique.

(i) Padmapani Bodhisatva (Ajanta cave no. 1 ,Maharashtra) Mural Painting Circa 5th century A.D)
(ii) Mara Vijay (Ajanta Cave no. 26) Sculpture in stone. Circa 5th Century A.D.

JULY

Artistic Aspects of the Indo -Islamic Architecture:

1. Introduction
2. Study of following architectures:
  (i) Qutab Minar, Delhi
  (ii) Taj Mahal ,Agra
  (iii) Gol Gumbaj of Bijapur

AUGUST

Art of Indus Valley Civilization (period -2500 B.C to 1500 B.C.)

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Introduction

(1) Period and location

(2) Extension :In about 1500 miles

(a) Harappa and Mohenjo –daro (now in Pakistan)
(b) Ropar ,Lothal ,Rangpur,Alamgirpur Kali Bangan, Banawali,Dhaula Veera (In India)

Study of following Sculptures and Terracottas:

(i) Dancing Girl (Mohenjo- daro)Bronze ,10.5 x5x2.5 cm . Circa 2500 B.C. (Collection :National Museum ,New Delhi .)
(ii) Male Torso (Harappa) Red Lime Stone ,9.2x 5.8x3cms Circa 2500B.C.New Delhi(Collection :National Museum New Delhi.)
(iii) Mother Goddess (Mohenjo -daro) terracotta .22 x8 x 5 cm (Collection : National Museum New Delhi.)

Study of following seals

(i) Bull (Mohenjo daro) Stone (steatite), 2.5x 2.5x1.4cm. Circa 2500 B.C (collection :National Museum , New Delhi).
(ii) Printed Earthen Ware (jar) Mohenjo –daro) Collection: Museum (New Delhi)

SEPTEMBER
S.A- I

OCTOBER

General introduction of Mauryan Art and Shunga Art :
Study of following Sculptures:

(i) Lion Capital from Sarnath (Mauryan Period) Polished sandstone, circa 3rd Century B.C.
(Collection :Sarnath Museum ,U.P.)
(ii) Chauri Bearer from DidarGanj (Mauryan Period) Polished sand stone . Circa 3rd Century B.C.
(Collection : Patna Museum , Bihar

NOVEMBER

General introduction to Kushana (Gandhara and Mathura styles) and Gupta Period :

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(i) Bodhisattva head from Taxila (kushan Period -Gandhara style) Stone ,27.5x20x 15 cm.
Circa 2nd Century A.D.

(ii) Seated Buddha from Katra Mound , Mathura –(kushana Period –Mathura style)
Red –spotted Sand stone,Circa 3rd Century A.D.(Collection : Govt. Museum , Mathura)

(iii) Seated Buddha from Sarnath (Gupta period)
Stone , Circa 5th Century A.D. (Collection : Sarnath Museum U.P.)

(iv) Jain Tirthankara (Gupta Period)
Stone, Circa 5th Century A.D. (Collection : State Museum Lucknow U.P.)

DECEMBER

(1) Artistic aspects of Indian Temples
(6thCentury A.D. 13 Century A.D.)

(i) Descent of Ganga (Pallava Period , Mahabalipuram ,Tamilnadu), Granite rocks . Circa 7th Century A.D.

(ii) Ravana Shaking Mount Kailash (Rashtracuta period ,Ellora) Stone .8th Century A.D.

(iii) Trimurti (Elephanta , Maharashtra) Stone . 9th Century A.D.

(iv) Lakshmi Narayana (khendaria Mahadev Temple) (Chendela period ,Khajuraho . M.P.) Stone , Circa 10th Century A.D.

(v) Cymbal Player , Sun Temple (Ganga Dynasty, Konark,Odisha)
Stone ,Circa 13th Century A.D.

(vi) Mother and Child (Vimla –Shah Temple, Solanki Dynesty,Dilwara Mount Abu, Rajasthan) White Marble.
Circa 13th Century A.D.

JANUARY

General introduction of Indian Bronzes:

Method of Casting (Solid and Hollow)

Study of South Indian Bronzes :

(i) Nataraj (chola Period , Thanjavar distt.Tamil Nadu)
12th Century A.D.) (Collection : National Museum ,New Delhi)

(ii) Devi (Uma) ,Chola Period (11th Century A.D.)
Collection :National Museum , New Delhi)

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MONTHLY SYLLABUS FOR CLASS – XI (2017-18)

SUBJECT: PSYCHOLOGY

JULY	Ch-1. What Is Psychology?
	Ch-2. Method Of Enquiry In Psychology
AUGUST	Ch-3. The Bases of Human Behaviour
	Ch-4. Human Development
SEPTEMBER	Ch-5. Sensory, Attentional and Perceptual Processes
OCTOBER	Ch-6. Learning
NOVEMBER	Ch-7. Human Memory
DECEMBER	Ch-8. Thinking
JANUARY	Ch-9. Motivation and Emotion Revision

ASSESSMENT SYLLABUS

Class Assessment – I

Ch-1 What Is Psychology?
Ch-2 Method of Enquiry in Psychology

Term Assessment –I
Ch-3. The Bases of Human Behaviour
Ch-4 Human Development

Class Assessment – II
Ch-5 Sensory, Attentional and Perceptual Processes
Ch-6 Learning,

Term Assessment – II
Whole Syllabus

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Amrit Indo Canadian Academy
Annual syllabus for Class 11th
Subject - Entrepreneurship

April month:
Chapter -1 (Entrepreneurship : concept and functions)
May month
Chapter - 2(An Entrepreneur)
June month:
Summer Vacation
July month:
Chapter - 3(Entrepreneurial journey)
August month:
Chapter - 4(Entrepreneurship as innovation and problem solving)
September month:
SA-1Exams
October month:
Chapter - 5(Concept of Market)
November month:
Chapter -6(Business Finance and Arithmetic)
December month:
Chapter -7(Resource Mobilisation)

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