

COMMERCE

- OCT. : Directing, Controlling
NOV. : Marketing : Concept & Functions, Marketing Mix., Consumer protection
DEC+JAN: Revision

ECONOMICS

- OCT. : Theory of Income & Employment Commercial Bank, Central Bank, Balance of Payments
NOV. : Circular flow of Income, Government Budget, National Income Aggregate, Methods of Measuring National Income, Fiscal Policy
DEC+JAN: Revision

HISTORY

- SEPT : **Section-B** : Ch. 9. Cold War 1945-1991: Origin, Course, End and Impact (to be contd.)
OCT. : **Section-B** : Ch. 9. Cold War 1945-1991
NOV. : **Section-B** : Ch. 10. Protest movements (Civil Rights Movement, Anti-apartheid Movement, Feminist Movement)
Ch. 11. Middle East : Israeli-Palestine Conflict (1916-1993), Revision
DEC. : **Revision +Project Work**

GEOGRAPHY

- SEPT. : **Practical** : Drawing of cross section of profiles.
OCT. : Ch. 14. Agriculture, Ch. 15. Fisheries, Ch. 16. Minerals and Power Resources, Ch. 17. Transport and Communication
NOV. : Ch. 18. Industries, Ch. 19. Tourism Industry
Ch. 20. Regional Economic Development (Case studies)
Practical : Interpretation of GIS +Map Work
DEC. : Revision

MORAL SCIENCE

- OCT. : Ch. 13. Sex in Media
NOV. : Ch. 14. Lights of the World
DEC. : Revision

PHYSICAL EDUCATION

- SEPT. : **Section-A** : Ch. 5 : Health Education and Health Problems
Section-B : National and International of Governing Bodies and tournaments
Practical : Specialization Test Physical Efficiency test (sit up)
OCT. : **Section-A** : Ch. 5 : Health Education and Health Problems
Section-B : National and International of Governing Bodies and Tournaments
Practical : Specialisation Test, Physical Efficiency Test
NOV. : **Section-A** : Ch. 6. Sports Injuries and First Aid
Section-B : Revision
Practical : Specialisation Test, Physical Efficiency Test
DEC+JAN.: Revision

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• This Syllabus can be downloaded from our school website : www.lps-lpc.org



COURSE FOR CLASS XII (ISC) 2022-23

I TERM EXAMINATION

HINDI

- MARCH: सारा आकाश: पूर्वाद्ध (अंक एक एवं दो)
APRIL : गद्य संकलन : शरणागत
काव्य मंजरी : नदी के द्वीप।
सारा आकाश: पूर्वाद्ध (अंक तीन एवं चार)
व्याकरण : मुहावरे, अपठित गद्यांश
MAY : गद्य संकलन : आउट साइडर
काव्य मंजरी : बादल को घिरते देखा है।
व्याकरण : वाक्य शुद्धि
JUNE : व्याकरण : निबन्ध लेखन, वाक्य शुद्धि, मुहावरे
JULY : समस्त पाठ्यक्रम की पुनरावृत्ति।
नोट—प्रथम चरण की परीक्षा में कक्षा XI का समस्त पाठ्यक्रम सम्मिलित होगा।

ENGLISH LANGUAGE

- MARCH: Functional Grammar Composition
APRIL : Speech Writing, Proposal Writing, Functional Grammar (Total English)
MAY : Article Writing, Composition, Comprehension
JUNE : Functional Grammar
JULY : Revision

ENGLISH LITERATURE

- APRIL : **The Tempest** : Act IV, The Sound Machine, The Darkling Thrush
MAY : **Prose** : To Build a Fire
Poem : The Darkling Thrush (to be contd..),
JUNE : **Poem** : Birches+Revision
JULY : Revision

MATHEMATICS

- MARCH: Relations
APRIL : Functions, Binary operations, Inverse Trigonometric Functions, Determinants, Matrices, Continuity and Differentiability
MAY : Differentiation, Vectors (Sec-B), Application of Calculus in Commerce and Economics (Sec-A) (contd.)
JUNE : Application of Calculus in Commerce and Economics
JULY : Revision

PHYSICS

- MARCH: Electric Charges and Fields (contd.)
APRIL : Electric Charges & Fields, Gauss' Theorem, Electric Potential, Capacitors and Dielectrics
Practical : u-v experiment
MAY : Electrical Resistance and Ohm's Law, D.C. Circuits and Measurements,
Practical : Meter Bridge using Galvanometer Only
JUNE : Moving Charges and Magnetism, Revision
JULY : Revision

CHEMISTRY

- MARCH:** Solutions
APRIL : Solutions (contd.), Solid states, Haloalkane and Haloarenes
Practical : 1. Organic Compound : Glycerol, Acetone
MAY : Haloalkanes and Haloarenes (contd.), p-Block elements
Practical : group '0'
June : p-Block elements in continuation, general principles and processes of isolation of elements.
Practical : Titration : KMnO_4 vs oxalic acid saltanalysis Gp 1
JULY : Revision

BIOLOGY

- MARCH: Theory :** 1. Reproduction in Organism, 2. Sexual Reproduction in Flowering Plants
APRIL : Theory : 2. Sexual Reproduction in Flowering Plants (to be contd.), 3. Human Reproduction, 4. Reproductive Health
Practical: 1. Families : Malvaceae, Leguminosae and Solanaceae, Slide of ovary
2. Spotting: T.S. of ovary, testis and Blastula of Mammal, 3. Soil Profile.
MAY : Theory : 5. Principles of Inheritance and Variation, 6. Molecular basis of inheritance
Practical: Slide Preparation : Germination of Pollen grain in Nutrient medium, 2. Distribution of stomata on both surfaces of leaves
JUNE : 6. Molecular basis of inheritance (contd. from May) **+Revision**
JULY : Revision

BIOTECHNOLOGY

- MARCH: Theory :** 1. Molecular Biology- (a) Nucleic Acid and their estimation,
APRIL : Theory : (b) Protein Synthesis, (c) Gene regulation
2. Genetic Engineering concept of cloning and cloning vectors
Practical: (1) Preparation of Buffer (only acetate buffer)
MAY : Theory : Introduction to gene cloning (to be contd.)
Practical: (2) Paper chromatography (3) Action of enzyme on starch
JUNE : Revision
JULY : Revision

COMPUTER SCIENCE

- MARCH:** Ch. 1: Boolean Algebra
APRIL : Ch. 1: Boolean Algebra (to be contd.), Ch. 2 : Computer Hardware
MAY : Ch. 3: Object and Classes (Notes Provided)
Ch. 4: Java Revision Tour (Notes Provided)
Ch. 5: Primitive Values, Types Casting, Expression (Notes Provided)
Ch. 6: Statements, Control Structure and Scope (Notes Provided)
Ch. 7: Functions/Methods (Theory Notes Provided),
Ch. 8: Arrays and String
JUNE : Ch. 9: Compiling and Running Java Programs (Notes Provided),
Ch. 10 : Java Class : An OOPS Perspective
JUNE : Ch. 11 : Recursion

PHYSICS

- SEPT. :** **Practical :** Displacement method
Optical Instruments
OCT. : Wave Nature of light (Huygen's Theory) Interference of light, Diffraction of light, Photoelectric effect, Matter waves
NOV. : Atoms, Nuclear structure, Mass energy equivalence, Nuclear Fusion and Fission, Semiconductor
Practical : Meter bridge having ammeter and voltmeter, Revision
DEC+JAN+FEB: Revision

CHEMISTRY

- SEPT. :** Biomolecules
OCT. : Electrochemistry, Chemical; kinetics
Practical : Organic Compound Benzoic acid, Carbohydrate, Protein Saltanalysis gp V
NOV. : Aldehyde, Ketones and carboxylic acid, Nitrogen Containing Compounds, Chemistry in Every day life, Polymers
Practical: Salt analysis Gp VI - ROR ($\text{Na}_2\text{S}_2\text{O}_3$ vs HCl)
DEC. : **Practical +Revision**
ROR (Mg vs dil. $\text{H}_2\text{SO}_4/\text{HCl}$)
JAN. : Revision

BIOLOGY

- SEPT. :** **Theory :** 11. Biotechnology : Principles and Processes
OCT. : **Theory :** 12. Biotechnology and its Application, 13. Organisms and Population.
Practical : Ecological Adaptations- Flower Adapted to Pollination
NOV. : **Theory :** 14. Ecosystem, 15. Biodiversity and its conservation
16. Environmental Issues

DEC+JAN+FEB. : Revision

BIOTECHNOLOGY

- SEPT :** **Theory :** (b) Microbial Culture and application
OCT. : **Theory :** (b) Microbial Culture application (to be contd.), (c) Plant tissue and its Application, Animal cell culture and application
Practical: (8) Gram staining techniques (9) Isolation of DNA from plant.
NOV. : **Theory :** Bioinformatics (introduction to genomics H.G.P. & S.N.P) and proteomics

DEC+JAN+FEB : Revision

COMPUTER SCIENCE

- OCT. :** Ch. 14: Recursive Data Structure
NOV. : Computational Complexity and Big-O notation Project File
DEC+JAN : Revision

ACCOUNTS

- SEPT. :** Shares (contd.)
OCT. : Shares, Issue of debentures, Redemption of Debentures.
NOV. : Financial statement of companies : Cash Flow Statement+Revision
DEC+JAN : Revision

MORAL SCIENCE

AUG. : Ch. 11. Earth's Future in My Hands

SEPT. : Ch. 12. Read and Real violence

PHYSICAL EDUCATION

JULY : **Section-A** : Ch. 3. Career Aspects in Physical Education (contd.)

Section-B : Duties of the Officials and Laws of Governing the game

Practical : Specialization test physical Efficiency Test (Distance run)

AUG. : **Section-A** : Ch. 3. Career Aspects in Physical Education

Ch. 4. Competitions and Tournament.

Section-B : Duties of team management and different type of signals and basic skills

Practical : Specialization Test Physical Efficiency Test (Push ups)

SEPT : **Revision / Practical**

PRE BOARD EXAMINATION

HINDI

SEPT. : गद्य संकलन : दासी

व्याकरण : निबन्ध लेखन

OCT. : काव्य मंजरी : तुलसी के पद

व्याकरण : निबन्ध लेखन

गद्य संकलन : संस्कृति क्या है ?

NOV. : काव्य मंजरी : अंधेरे का दीपक

व्याकरण : अपठित गद्यांश, वाक्य शुद्धि, मुहावरे

DEC. : परियोजना कार्य— सिद्ध कीजिए कि उपन्यास—'सारा आकाश' 'नारी अशिक्षा' एवं उत्पीड़न की कथा है। पुनरावृत्ति

नोट :- Pre-Board की परीक्षा में XI और XII का समस्त पाठ्यक्रम सम्मिलित होगा।

DEC+JAN.: व्याकरण : निबन्ध लेखन, समस्त पाठ्यक्रम की पुनरावृत्ति।

ENGLISH LANGUAGE

OCT. : Composition, Cultural Programme Review, Functional Grammar

NOV. : Film Review, Proposal Writing

DEC : **Revision I Pre Board Exams. (2-13 Dec.)**

JAN. : **Revision II Pre Board Exams. (5-17 Jan.)**

ENGLISH LITERATURE

OCT. : Epilogue (contd.) Dover Beach, B. Wordsworth

NOV. : B. Wordsworth (contd.), We are the Music Makers

JAN : **Revision**

MATHS

SEPT. : Indefinite Integrals-I

OCT. : Indefinite Integrals-II, Indefinite Integrals-III Definite Integrals, Differential Equations

NOV. : Probability, Baye's Theorem, Three Dimensional Geometry (Plane) Application of Integrals (Sec-B), Linear Programming (Section-C), **Revision**

DEC : **Revision I Pre Board Exam**

JAN : **Revision II Pre Board Exam**

ACCOUNTS

MARCH: Fundamentals of Partnership (to be contd.)

APRIL : Fundamentals of Partnership, Partnership-Admission and Valuation of Goodwill

MAY : Comparative Statement, Ratio Analysis

JUNE+JULY : **Revision+Project**

COMMERCE

MARCH: Business Environment

APRIL : Capital-Fixed and working, Sources of finance for a joint stock company

MAY : Banking-Latest Trends, Management-Meaning, Nature and Importance

JUNE : Management -Meaning Nature and Importance (contd.)

JULY : Revision, **Project 1 and 2**

ECONOMICS

MARCH: Demand and Law of Demand,

APRIL : Elasticity of Demand, Supply : Law and Elasticity supply, Theory of consumer equilibrium

MAY : Equilibrium Price and Quantity, Forms of Market **+project 1**

JUNE : Revision

HISTORY

MARCH: **Section-A** : Ch. 1. Towards Independence and Partition: The Last Phase (1935-1947) (contd.)

APRIL : **Section-A** : Ch. 1. Towards Independence and Partition: The Last Phase (1935-1947)

Ch. 2. Establishment and Development of Indian Democracy (1947-1966)

MAY : Ch. 3. Challenges to Indian Democracy (1964-1977)

JUNE : **Section-B** : Ch. 7. World War II

Ch. 4. Changing Face of the Indian Democracy (1977-1986)

JULY : **Revision and Project Work**

GEOGRAPHY

MARCH: Ch. 1. Locational setting of India

APRIL : Ch. 2. Geological Evolution and Structure, Ch. 3. Relief

Ch. 4. Drainage, Ch.5. Climate (contd.)

MAY : Ch. 5. Climate, Ch. 6. Natural Vegetation,

Ch. 7. Population, Ch. 8. Migration Trends, **Practical** : Scales

JUNE : **Map Work and Revision**

MORAL SCIENCE

MARCH: Ch. 9. Fascinating Illusions

APRIL : Ch. 10. Caught in the Net

MAY+JUNE: Revision

PHYSICAL EDUCATION

MARCH: **Section-A:** Ch. 1. Sociological Aspects of Physical Education (contd.)

Section-B: Ch. Knowledge of the game

Practical : Specialisation test Physical Efficiency Test (50 mt run)

APRIL : **Section-A:** Ch. 1. Sociological Aspects of Physical Education, Ch. 2. Training Methods (contd.)

- Section-B:** Rules and Regulation of the game
Practical : Specialization test physical Efficiency Test (Standing long Jump)
- MAY :** **Section-A:** Ch. 2. Training Methods
Section-B: Rules and Regulation of the game
Practical : 1. Specialization test
 2. Efficiency Test (Distance run)
- JUNE :** **Section-A** and **Section-B**, Revision
JULY : Revision

II- TERM EXAMINATION

HINDI

- JULY :** **सारा आकाश:** (अंक पाँच एवं छः)
व्याकरण : अपठित गद्यांश
- AUG. :** **काव्य मंजरी :** जाग तुझको दूर जाना है।
गद्य संकलन : क्या निराश हुआ जाए ?
व्याकरण : वाक्य शुद्धि, मुहावरे।
- SEPT. :** पुनरावृत्ति।
नोट : द्वितीय चरण की परीक्षा में प्रथम चरण तथा द्वितीय चरण का ही समस्त पाठ्यक्रम सम्मिलित होगा।

ENGLISH LANGUAGE

- JULY :** Statement of Purpose (SOP) Proposal Writing, Functional Grammar
AUG. : Composition, Newspaper Report, Functional Grammar
SEPT. : Comprehension+Revision

ENGLISH LITERATURE

- JULY :** **Prose :** The Story of an Hour, Crossing the Bar
AUG. : **The Tempest Act-V+Epilogue :** The Singing Lesson
SEPT. : The Singing Lesson (contd.), Revision

MATHS

- JULY :** Indeterminate forms, Mean Value Theorems
AUG. : Application of Derivatives, Maxima & Minima, Three Dimensional Geometry (Sec-B), Linear Regression (Sec-C)
SEPT. : Revision

PHYSICS

- JULY :** Torque on a current loop and Moving coil galvanometer, magnetic field, Electromagnetic Induction
AUG. : Alternating Current, Electromagnetic Waves, Refraction of Light at spherical surfaces, Refraction of light through lens Refraction and Dispersion through Prism
SEPT. : Revision

CHEMISTRY

- JULY :** Alcohols, Phenols and Ethers
Practical: Titration FAS vs KMnO_4 (Group-II, III) Salt analysis
AUG. : Surface Chemistry, d and f block elements, Co-ordination Compounds.
Practical: group IV (Salt analysis), Organic compound (HCHO, Aniline)

BIOLOGY

- JULY :** **Theory :** 7. Human Health and Diseases, 8. Evolution (to be contd)
Practical : Isolation of DNA
- AUG. :** **Theory :** 8. Evolution, 9. Strategies for Enhancement in Food production, 10. Microbes in Human Welfare
Practical: 1. Isolation of DNA, 2. Spotting : Whole mount of Plasmodium, Entamoeba) 3. Effect of Temperature and pH on salivary amylase
- SEPT. :** Revision

BIOTECHNOLOGY

- JULY :** **Theory:** (iii) Innovations in biotechnology (after exam)
Practical: (4) Preparation of culture media (iv) gene analysis
- AUG. :** **Theory :** (iv) Gene analysis (to be contd.) **Cell culture technology :** Tools and techniques instruments (only uses). Sterilization techniques, Cryopreservation, cell counting, Types of media, Importance of pH and Solidifying Agent
Practical: (5) Inoculation and incubation of lactobacillus on culture media (6) Isolation of milk protein (7) Cell viability test by Evan's blue dye.
- SEPT :** Revision

COMPUTER SCIENCE

- JULY :** Ch. 12 : Concept of Inheritance
AUG. : Ch. 12 : Concept of Inheritance (contd.)
SEPT : Ch. 13 : Data Structure (Stack and Queue), Cqueue, Dequeue using Array)

ACCOUNTS

- JULY :** Partnership-Retirement and Death (contd.)
AUG. : Partnership-Retirement and Death, Partnership Dissolution : Common size statement
SEPT. : Revision

COMMERCE

- JULY :** Principles of Management, Functions of Management and coordination
AUG. : Planning, Organising, Staffing
SEPT. : Revision

ECONOMICS

- JULY :** Laws of Return
AUG. : Cost and Revenue, Producer's Equilibrium, Determination of Equilibrium Price and QTY
SEPT. : Money-(after Exam) +**Project 1**

HISTORY

- JULY :** **Section-A:** Ch. 5. India's Foreign Policy
AUG. : **Section-A :** Ch. 6. Movements for women's Rights
Section-B : Ch. 8. De-colonisation in Asia (China) and Africa (Ghana and Kenya)
SEPT. : Revision+**Project Work**

GEOGRAPHY

- JULY :** Ch. 9. Demographic Attributes Ch. 10. Rural Settlements
Practical : Interpretation of Topographical Maps.
AUG. : Ch. 11. Urban Settlements Ch. 12. Environmental Management and Land use Pattern Ch. 13. Water Resources and types of Irrigation
SEPT. : **Project Work :** Multi Purpose River Valley Projects, **Map Work**+Revision