ST. PATRICK'S ACADEMY, MEERUT

CLASS XII
SYLLABUS
2024-2025

CLASS XII

ENGLISH LITERATURE (801 B)

FIRST TERM

UNIT TEST-I

BOOK 1 – PRISM (A COLLECTION OF ISC SHORT STORIES) by Evergreen Publications
PROSE: S. No. 11 Atithi/ Guest

BOOK 2 – RHAPSODY (A COLLECTION OF ISC POEMS) by Evergreen Publications
POETRY: S. No. 11 Telephone Conversation

BOOK 3 – MACBETH by Morning Star
DRAMA: Act III Scene I-III

WORKBOOKS – RHAPSODY AND PRISM WORKBOOK PART II, MACBETH WORKBOOK by Beeta Publication

HALF YEARLY

BOOK 1 – PRISM (A COLLECTION OF ISC SHORT STORIES) by Evergreen Publications
PROSE:
S. No. 11 Atithi/ Guest
S. No. 12 The Cookie Lady
S. No. 13 There Will Come Soft Rains

BOOK 2 – RHAPSODY (A COLLECTION OF ISC POEMS) by Evergreen Publications
 POETRY:
S. No. 11 Telephone Conversation

S. No. 14 Small Towns and the River
S. No. 15 Death Be Not Proud

BOOK 3 – MACBETH by Morning Star
DRAMA:
Act III Scene I-III
Act III Scene IV-VI, Act IV Scene I

WORKBOOKS – RHAPSODY AND PRISM WORKBOOK PART
II, MACBETH WORKBOOK by Beeta Publication

<u>SECOND TERM</u>

Full Syllabus as prescribed by the Council.

CLASS XII

ENGLISH LANGUAGE (801 A)

BOOK – TOTAL ENGLISH (CLASS 12 ISC) BY MORNING STAR

FIRST TERM

UNIT TEST-I

Grammar
Writing Skills: Speech Writing

HALF YEARLY

Grammar
Writing Skills: Composition, Newspaper Report Writing, Speech Writing, Proposal Writing, Comprehension

SECOND TERM

Full Syllabus as prescribed by the Council.

CLASS XII
MATHEMATICS (860)

BOOK – ISC MATHEMATICS S. CHAND SCHOOL BOOKS

<u>FIRST TERM</u>

<u>UNIT TEST-I</u>
Chapter 1 Relations
Chapter 2 Functions
Chapter 4 Inverse Trigonometric Functions
Chapter 5 Determinants
Chapter 6 Matrices
Chapter 7 Continuity and Differentiability of Functions

<u>HALF YEARLY</u>
Chapter 1 Relations
Chapter 2 Functions
Chapter 3 Binary Operations
Chapter 4 Inverse Trigonometric Functions
Chapter 5 Determinants
Chapter 6 Matrices
Chapter 7 Continuity and Differentiability of Functions
Chapter 8 Differentiation
Chapter 9 Indeterminate Forms of Limits
Chapter 10 Mean Value Theorems
Chapter 11 Application of Derivatives
Chapter 12 Maxima and Minima
Chapter 13 Indefinite Integral - 1 (Standard Forms)
Chapter 14 Indefinite Integral - 2 (Methods of Integration)
Chapter 15 Indefinite Integral - 3 (Special Integrals)
<u>SECOND TERM</u>

Full Syllabus as prescribed by the Council.

CLASS XII
PHYSICS (861)

BOOK – ISC PHYSICS (KUMAR-MITTAL) BY NAGEEN PRAKASHAN PVT. LTD.

LAB MANUAL – ISC PHYSICS LAB MANUAL

FIRST TERM

UNIT TEST-I

Chapter 1 Electric Charges and Fields
Chapter 2 Gauss Theorem
Chapter 3 Electric Potential
Chapter 4 Capacitors and Dielectrics
Chapter 5 Electric Resistance and Ohm's Law

HALF YEARLY

Chapter 1 Electric Charges and Fields
Chapter 2 Gauss Theorem
Chapter 3 Electric Potential
Chapter 4 Capacitors and Dielectrics
Chapter 5 Electric Resistance and Ohm's Law
Chapter 6 DC Circuits and Measurements
Chapter 7 Moving Charges and Magnetic Field
Chapter 8 Torque on a Current-Loop Moving-Coil Galvanometer
Chapter 9 Magnetic Field and Earth Magnetism
Chapter 10 Magnetic Classification and Substances
Chapter 11 Electromagnetic Induction
Chapter 12 Alternating Current
Chapter 13 Electromagnetic Waves
Chapter 14 Reflection of Light: Spherical Mirrors

Chapter 15 Refraction of Light at a Plane Interface: Total Internal Reflection
Chapter 16 Lenses: Refraction of Light at Spherical Surface
Chapter 17 Refraction and Dispersion of Light Through a Prism
Chapter 18 Optical Instruments
Chapter 19 Wave Nature of Light Huygens Principle
Chapter 20 Interference of Light
Chapter 21 Diffraction of Light
Chapter 22 Polarisation of Light

SECOND TERM

Full Syllabus as prescribed by the Council.

PRACTICAL WORK

➢ The experiments for laboratory work and practical examinations are mostly from two groups:

(i) Experiments based on ray optics and

(ii) Experiments based on current electricity.

➢ Project Work

CLASS XII

CHEMISTRY (862)

BOOK – ISC CHEMISTRY BY NAGEEN PRAKASHAN PVT. LTD.

LAB MANUAL – ISC CHEMISTRY LAB MANUAL

FIRST TERM

UNIT TEST-I

Chapter 1 Solid State
Chapter 2 Solutions
Chapter 3 Electrochemistry
Chapter 8 d and f -Block Elements
Chapter 10 Haloalkanes and Haloarenes

HALF YEARLY

Chapter 1 Solid State
Chapter 2 Solutions
Chapter 3 Electrochemistry
Chapter 4 Chemical Kinetics
Chapter 6 General Principles and Processes of Isolation of Elements
Chapter 9 Coordination Compounds
Chapter 10 Haloalkanes and Haloarenes
Chapter 11 Alcohols, Phenols and Ethers
Chapter 12 Aldehyes, Ketones and Carboxylic Acids

SECOND TERM

Full Syllabus as prescribed by the Council.

PRACTICAL WORK - Each term includes practical work as guided by ISC which will be maintained in a proper Chemistry Practical File.

Titrations
Study of the rate of reaction
Identification of the following compounds and functional groups
Test of Carbohydrates and Proteins
Electrochemistry
Qualitative Analysis

CLASS XII

BIOLOGY (863)

BOOK –ISC BIOLOGY BY NAGEEN PRAKASHAN

LAB MANUAL – ISC BIOLOGY LAB MANUAL

FIRST TERM

UNIT TEST-I

Chapter 1 Reproduction in Organisms
Chapter 2 Sexual Reproduction in Flowering Plants
Chapter 3 Human Reproduction
Chapter 4 Reproductive Health

HALF YEARLY

Chapter 1 Reproduction in Organisms
Chapter 2 Sexual Reproduction in Flowering Plants
Chapter 3 Human Reproduction
Chapter 4 Reproductive Health
Chapter 5 Principles of Inheritance and Variation
Chapter 6 Molecular Basis of Inheritance
Chapter 7 Origin of Life
Chapter 8 Evidences and theories of Biological Evolution
Chapter 9 Human Evolution
Chapter 10 Human Health and Diseases
Chapter 11 Strategies for Enhancement in Food Production
Chapter 12 Microbes in Human Welfare
Chapter 13 Principles and Processes of Biotechnology

SECOND TERM

Full Syllabus as prescribed by the Council.

PRACTICAL WORK - Each term includes practical work as guided by ISC which will be maintained in a proper BIOLOGY Practical File.

> ➢Taxonomy
> ➢Spotting of various Plants and Animal
> ➢ Slide Preparation
> ➢Core Experiments

➢ Study of arrangement of stomata in dicot and monocot leaves
➢ Study of soils
➢ Study of the effect of temperature and pH on the activity of salivary amylase on starch
➢ Isolation of DNA from available plant material

> ➢ Project Work

CLASS XII

ACCOUNTANCY (858)

FIRST TERM

UNIT TEST-I

BOOK 1- VOLUME I- ISC ACCOUNTANCY XII- AVICHAL PUBLICATION

Chapter 1 Fundamentals of Partnership
Chapter 2 Goodwill
Chapter 3 Admission of a Partner

HALF YEARLY

BOOK 1- VOLUME I- ISC ACCOUNTANCY XII- AVICHAL PUBLICATION

Chapter 1 Fundamentals of Partnership
Chapter 2 Goodwill
Chapter 3 Admission of a Partner
Chapter 4 Retirement of a Partner
Chapter 5 Dissolution of a Partnership firm
Project work based on above chapters

SECOND TERM

Full Syllabus as prescribed by the Council.

CLASS XII

COMMERCE (857)

BOOK - VOLUME II- ISC COMMERCE- SULTAN CHAND

FIRST TERM

UNIT TEST-I

Chapter 1 Business Environment
Chapter 2 Financing
Chapter 3 Capital

HALF YEARLY

Chapter 1 Business Environment
Chapter 2 Financing
Chapter 3 Capital
Chapter 4 Sources of Finance for a Joint Stock Company
Chapter 5 Banking - Latest Trends
Project work based on above chapters

SECOND TERM

Full Syllabus as prescribed by the Council.

CLASS XII

LEGAL STUDIES (881)

BOOK - ISC LEGAL STUDIES- MARINA PUBLICATION

FIRST TERM

UNIT TEST-I

Chapter 1 Law of Crimes
Chapter 2 Alternate Dispute Resolution (ADR)
Chapter 3 Legal Services Authorities Act, 1987

HALF YEARLY

Chapter 1 Law of Crimes
Chapter 2 Alternate Dispute Resolution (ADR)
Chapter 3 Legal Services Authorities Act, 1987
Chapter 4 Indian Contract Act, 1872
Chapter 5 Law of Torts
Chapter 6 Transfer of Property Act, 1882

SECOND TERM

Full Syllabus as prescribed by the Council.

CLASS XII

ECONOMICS (856)

BOOK - ISC ECONOMICS- FRANK BROS.

FIRST TERM

UNIT TEST-I

Chapter 1 Demand
Chapter 2 Elasticity of Demand
Chapter 3 Supply
Chapter 4 Market Mechanism

HALF YEARLY

Chapter 1 Demand
Chapter 2 Elasticity of Demand
Chapter 3 Supply
Chapter 4 Market Mechanism
Chapter 5 Concepts of Production
Chapter 6 Cost and Revenue
Chapter 7 Main Market Forms and Equilibrium of a Firm
Project work based on above chapters

SECOND TERM

Full Syllabus as prescribed by the Council.

CLASS XII

COMPUTER SCIENCE (868)

BOOK - COMPUTER SCIENCE WITH JAVA -XII - DHANPAT RAI & Co.

FIRST TERM

UNIT TEST-I
Chapter 1 Boolean Algebra
Chapter 2 Computer Hardware
Chapter 3 Objects and Classes
Chapter 6 Statements, Control Structure and Scope
Chapter 7 Functions/Methods
Practical work based on above chapters

HALF YEARLY
Chapter 1 Boolean Algebra
Chapter 2 Computer Hardware
Chapter 3 Objects and Classes
Chapter 4 Java Revision Tour
Chapter 5 Primitive Values, Type Casting and Expressions
Chapter 6 Statements, Control Structure and Scope
Chapter 7 Functions/Methods
Chapter 8 Arrays and Strings
Chapter 9 Compiling and Running Java Programs
Chapter 10 Java Classes: An OOP Perspective
Chapter 12 Concept of Inheritance
Practical work based on above chapters
SECOND TERM

Full Syllabus as prescribed by the Council.

CLASS XII

PHYSICAL EDUCATION (863 A)

BOOK - ISC PHYSICAL EDUCATION- NEW SARASWATI HOUSE

FIRST TERM

UNIT TEST-I

Chapter 1 Sociological Aspects of Physical Education
Chapter 2 Training Methods

HALF YEARLY

Chapter 1 Sociological Aspects of Physical Education
Chapter 2 Training Methods
Chapter 3 Career Aspects in Physical Education
Chapter 4 Competitions and Tournaments
Practical- Athletics, Volleyball & Basketball

SECOND TERM

Full Syllabus as prescribed by the Council.

CLASS XII

MORAL SCIENCE

BOOK - LIVING VALUES- JAY CEE PUBLICATION

FIRST TERM

HALF YEARLY

Chapter 1 Generation Gap
Chapter 4 Self-Control
Chapter 6 Frustration
Chapter 7 Decision Making

SECOND TERM

FINAL TERM

Chapter 8 Youth and Fashion
Chapter 10 Adolescents: Their Body and Mind
Chapter 11 Personality
Chapter 12 Accepting Criticism is An Art