

**ANNUAL EXAMINATION SYLLABUS
CLASS XI**

PHYSICS

Unit 1: Dimensions

Unit 2: Kinematics

Unit 3: Laws of Motion

Unit 4: Work, Energy and Power

Unit 5: Motion of System of Particles and Rotational Motion

Unit 6: Gravitation

Unit 7: Properties of Bulk Matter

Unit 8: Thermodynamics

Unit 9: Oscillations and Waves

CHEMISTRY

Some Basic Concepts of Chemistry

Structure of Atom

Periodic Classification of Elements

Chemical Bonding and Molecular Structure

Chemical Thermodynamics

Chemical Equilibrium

Redox Reactions

General Organic Chemistry

Hydrocarbons

BIOLOGY

Cell: The Unit of Life

Biomolecules

Cell Cycle and Cell Division

Breathing and Exchange of Gases

Body Fluids and Circulation

Excretory Products and their Elimination

Locomotion and Movement

Neural Control and Coordination

Chemical Control and Integration

PHYSICAL EDUCATION

Unit 1: Changing Trends and Career in Physical Education

Unit 2: Olympism and Value Education

Unit 3: Yoga

Unit 4: Physical Education and Sports for CWSN

Unit 5: Physical Fitness, Wellness and Lifestyle

Unit 6: Test, Measurement and Evaluation

Unit 7: Fundamentals of Anatomy and Physiology in Sports

Unit 8: Fundamentals of Kinesiology and Biomechanics in Sports

Unit 9: Psychology and Sports

Unit 10: Training and Doping in Sports

MATHEMATICS

Sets

Trigonometric Functions

Complex Numbers

Linear Inequalities

Binomial Theorem

Sequences and Series

Straight Lines

Conic Sections

Introduction to 3D Geometry

Limits and Derivatives

Statistics

Probability

HINDUSTANI MUSIC (VOCAL)

Unit 1

- Baad, Shruti, Swar, Saptak, Thaata
- Jati, Laya, Taal
- Margi and Deshi
- Nibaddha and Anibaddha
- Gaan, Raag, Swarmalika, Lakshan Geet

Unit 2

- Brief History of Dhrupad, Khyal and Tarana

Unit 3

- Musical Elements in Natya Shastra and Brihaddeshi
- Life Sketch and Contributions of Tansen, V.N. Bhatkhande and V.D. Paluskar

Unit 4

- Description of Prescribed Taals with Notation (Thah, Dugun, Chaugun)
- Structure of Tanpura

Unit 5

- Critical Study of Prescribed Raags
 - Recognition of Raags from Swar Phrases
 - Writing Notation of Prescribed Raags
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HINDI

आरोह (गद्य भाग)

नमक का दरोगा
मियां नसीरुद्दीन
अपू के साथ ढाई साल
विदाई संभाषण
गलता लोहा
रजनी
जामुन का पेड़
भारत माता

आरोह (काव्य भाग)

हम तो एक-एक करि जाना
मेरे तो गिरधर गोपाल
घर की याद
चंपा काले-काले अक्षर
गज़ल
हे भूख मत मचल
सबसे खतरनाक
आओ मिलकर बचाएं

वितान (पूरक पुस्तक)

भारतीय गायिकाओं में बेजोड़ लता मंगेशकर
राजस्थान की रजत बूंदें
आलो आँधारि

अभिव्यक्ति और माध्यम

अप्रत्याशित विषय पर लेखन
सरकारी पत्र
जनसंचार माध्यम
पत्रकारिता के विविध आयाम
डायरी लेखन
कथा-पटकथा

कार्यालयी लेखन
स्ववृत्त लेखन एवं रोजगार संबंधी आवेदन-पत्र
शब्दकोश एवं संदर्भ ग्रंथों का उपयोग
अपठित बोध (गद्यांश एवं काव्यांश)

ARTIFICIAL INTELLIGENCE

Unit 1: Introduction to Artificial Intelligence
Unit 2: Careers in AI
Unit 3: Python Programming (Basics, Control Statements, NumPy, Pandas, Scikit-learn)
Unit 4: Capstone Project and Design Thinking
Unit 5: Data Literacy and Data Analysis
Unit 6: Machine Learning Algorithms
Unit 7: Employability Skills (Excel, PowerPoint, Communication Skills)

ACCOUNTANCY

Part A

Chapter 1: Introduction to Accounting
Chapter 2: Theory Base of Accounting
Chapter 3: Recording of Transactions – I
Chapter 4: Recording of Transactions – II
Chapter 5: Bank Reconciliation Statement
Chapter 6: Trial Balance and Rectification of Errors
Chapter 7: Depreciation, Provisions and Reserves

Part B

Financial Statements (With and Without Adjustments)

ECONOMICS

Part A: Statistics for Economics

Unit 1: Introduction
Unit 2: Collection, Organisation and Presentation of Data
Unit 3: Statistical Tools and Interpretation

Part B: Introductory Microeconomics

Unit 4: Introduction
Unit 5: Consumer's Equilibrium and Demand

Unit 6: Producer Behaviour and Supply
Unit 7: Forms of Market and Price Determination

BUSINESS STUDIES (054)

Part A: Foundations of Business

1. Nature and Purpose of Business
2. Forms of Business Organisations
3. Public, Private and Global Enterprises
4. Business Services
5. Emerging Modes of Business
6. Social Responsibility of Business and Business Ethics

Part B: Finance and Trade

7. Sources of Business Finance
 8. Small Business
 9. Internal Trade
 10. International Business
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YOGA

Part A: Employability Skills

Communication Skills
Self-Management Skills
ICT Skills
Entrepreneurial Skills
Green Skills

Part B: Yoga Specific Skills

Introduction to Yoga and Yogic Practices
Introduction to Yoga Texts
Yoga for Health Promotion

FOOD PRODUCTION

Hospitality Industry as a Career
Food Production Department
Uniform, Safety and Hygiene
Kitchen Equipment

Kitchen Commodities and Storage
Pre-Preparation Techniques
Methods of Cooking
Salads
Soups
Egg Cookery

PAINTING

Unit 1 (Part A and B)
Elements of Art: Colour Chart, Lines, Texture, Effects of Colour
Objective Questions from All Units

MASS MEDIA (083)

Unit III: Understanding Media
Media Literacy
Analysis of Films
Analysis of TV Programmes
Content Analysis of Newspapers and Periodicals
Content Analysis of Radio Programmes
Features of Internet

LIBRARY AND INFORMATION SCIENCE (836)

Chapter 1: Library, Information and Society
Chapter 2: Organisation of Library Resources
Chapter 3: Reference and Information Sources
Chapter 4: Computer Applications in Library

HISTORY

Section 1
Writing and City Life

Section 2
An Empire Across Three Continents
Nomadic Empires

Section 3
The Three Orders
Changing Cultural Traditions

Section 4
Displacing Indigenous Peoples
Paths to Modernisation

ENGLISH

Section A: Reading (26 Marks)
Comprehension Passage
Case-Based Passage
Note Making
Abstraction

Section B: Grammar and Creative Writing (23 Marks)
Gap Filling
Rearranging
Sentence Reordering
Editing
Classified Advertisement
Poster
Speech
Debate

Literature (31 Marks)

Hornbill
The Portrait of a Lady
We Are Not Afraid to Die
Discovering Tut
Silk Road
Poems: A Photograph, The Laburnum Top, The Voice of the Rain, Childhood, Father to Son

Snapshots
The Summer of the Beautiful White Horse
The Address
Mother's Day
Birth
The Tale of Melon City

GEOGRAPHY

Theory (70 Marks)

Fundamentals of Physical Geography

India: Physical Environment

Practical (30 Marks)

Maps, Scale, Latitude & Longitude

Map Projections

Topographical Maps

Aerial Photographs

Remote Sensing

Weather Instruments

LEGAL STUDIES

Unit 1: Introduction to Political Institutions

Unit 2: Basic Features of the Constitution of India

Unit 3: Jurisprudence

Unit 4: Judiciary and Court Processes

Unit 5: Family Justice System

Practical: 20 Marks

HINDUSTANI PERCUSSION (TABLA)

Study of Sooltaal, Jhaptaal, Teentaal and Ektaal

Banaras and Delhi Gharana

Kayda and Palta (Teentaal and Jhaptaal)

Biography of Pt. Kishan Maharaj

Layakari and Bandish Notation

POLITICAL SCIENCE

Book 1: Indian Constitution

Constitution: Why and How

Democratic Rights

Election and Representation

Executive

Legislative

Judiciary

Local Government
Constitution as a Living Document

Book 2: Political Theory
Political Theory: An Introduction
Freedom
Equality
Social Justice
Citizenship

BANKING

- Definition and Functions of Banking
- Indian Banking System
- Banker and Customer Relationship
- Employment of Bank Funds
- Laws Relating to Negotiable Instruments

Employability Skills:

- Communication Skills
 - Self-Management Skills
 - Entrepreneurship Skills
 - Green Skills
 - Information Technology Skills
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PSYCHOLOGY

- What is Psychology?
 - Methods of Enquiry in Psychology
 - Bases of Human Behaviour
 - Human Development
 - Sensory, Attentional and Perceptual Processes
 - Learning
 - Human Memory
 - Thinking
 - Motivation and Emotion
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COMPUTER SCIENCE

- Number System
 - Boolean Algebra
 - Python Programming
 - Basics
 - Conditional Statements
 - Loops
 - Strings
 - Lists
 - Tuples
 - Dictionaries
 - Computer Networks
 - Introduction
 - Types of Networks
 - Network Devices
 - Network Topology
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INFORMATION TECHNOLOGY

Employability Skills:

- Green Skills
- Entrepreneurial Skills
- IT Skills

Subject-Specific Skills:

- Java (NetBeans)
 - All Tools Covered
 - If-Else Statements
 - Loops
 - Switch Statements
 - Computer Networks
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