

**Suditi Global Academy, Mainpuri**  
**Syllabus for Term-2 Examination (2024-25)**  
**Class: 11<sup>TH</sup>**

**ENGLISH CORE**

**ENGLISH CORE (301)**  
**Section A -- 26 Marks**  
**Reading Skills**

Reading Comprehension through Unseen Passages

**(10+8=18 Marks)**

1. One unseen passage to assess comprehension, interpretation, analysis, inference and vocabulary.
2. One unseen case-based factual passage with verbal/visual inputs .
3. Note Making and Summarization based on a passage of approximately 200-250 words. **(8 Marks)**

**Section B – 23 Marks**  
**Grammar and Creative Writing Skills**

**II Grammar**

**7 Marks**

4. Questions on Gap filling (Tenses, Clauses)
  5. Questions on re-ordering/transformation of sentences
- (Total seven questions to be done out of the eight given)**

**III Creative Writing Skills**

**16**

**Marks**

6. Short writing task – Classified Advertisements, up to 50 words.
7. Short writing task –Poster up to 50 words.
8. Long Writing task: Speech in 120-150 words .
9. Long Writing Task: Debate based on visual/verbal inputs in 120-150 word.

**Section C – 31 Marks**

**Literature Text Book and Supplementary Reading Text**

This section will have variety of assessment items including Multiple Choice Questions, Objective Type Questions, Short Answer Type Questions and Long Answer Type Questions to assess comprehension, interpretation, analysis, evaluation and extrapolation beyond the text.

**1. Hornbill:**

- The Portrait of a Lady (Prose)
- A Photograph (Poem)
- “We’re Not Afraid to Die... if We Can Be Together
- Discovering Tut: The Saga Continues
- The Laburnum Top (Poem)
- The Voice of the Rain (Poem)
- Childhood (Poem)
- The Adventure
- Silk Road (Prose)
- Father to Son

**2. Snapshots:**

- The Summer of the Beautiful White Horse

- The Address
- Mother's Day (Play)
- Birth
- The Tale of Melon City

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## **MATHEMATICS**

1 set theory

2 relation and function

3 trigonometry function

4 complex numbers

5 inequality

6 permutation and combination

7 binomial theorem

8 geometric progression

9 straight line

10 circle

11 conic sections ( parabola, ellipse, hyperbola)

12 Three D geometry

13 limit and derivatives

14 Statics

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## **PAINTING**

### **Unit-1**

**Chapter – 1** Fundamentals of Art

**Chapter – 2** Pre-Historic Rock Painting  
Introduction & Painting

**Chapter – 3** Art of Indus Valley Civilization  
i) Dancing Girl  
ii) Mother Goddess

### **Unit-2**

**Chapter – 4** Buddhist, Jain and Hindu Art  
General Introduction to Mauryan and Gupta Period  
Lion Capital from Sarnath, Chauri – Bearer from Didarganj,  
Seated Buddha from Katra mound, Jain Tirthankara

**Chapter – 5** Art of Ajanta  
General Introduction to Mauryan and Gupta Period

### Unit-3

**Chapter – 6** Temple Sculpture – Trimurti, Mother & Child  
Indian Bronze – Introduction, Natraj

**Chapter – 7** Indo-Islamic Architecture  
Introduction, Gol Gumbad of Bijapur,  
Qutab Minar, Taj Mahal

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### **HINDI CORE**

आरोह -पद्य खंड - घर की याद , चम्पा काले काले अच्छर नहीं चीन्हती, हे भूख मत मचल , हे मेरे जूही के फूल  
जैसे ईश्वर , गज़ल , सबसे खतरनाक , आओ मिलकर बचाएं ,(पाठ ५-१०)

गद्य खंड - अपू के साथ ढाई साल , विदाई संभाषण ,गलता लोहा , रजनी , जामुन का पेड़ , भारत माता ।

वितान - भारतीयों गायिकाओं में बेजोड़ लता मंगेशकर , राजस्थान की रजत बूंदें , आलो आंधारि ।

अभिव्यक्ति और माध्यम - जन संचार माध्यम , पत्रकारिता के विविध आयाम ,कथा - पटकथा , कार्यालयी  
लेखन और लेखन प्रक्रिया , रचनात्मक लेखन ।

अपठित गद्यांश और पद्यांश पर आधारित प्रश्न ।

छात्रों को देश की स्वतंत्रता में लेखकों , कवियों की भूमिका से अवगत कराना, इंन्द्रिय संयम का महत्व , विश्व  
प्रसिद्ध गायिका लता मंगेशकर की कुशलता , मानव जीवन में जल का महत्व, संचार प्रक्रिया एवं कुशल  
संचालन के गुण उत्पन्न करना , आदि छात्रोचित महत्वपूर्ण ज्ञान विकसित करना का दायित्व निर्वहन का प्रयास  
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### **HISTORY**

**BOOK : Themes in World History**

1. Writing and City Life
  2. An Empire Across Three Continents
  3. Nomadic Empire
  4. The Three Orders
  5. Changing Cultural Traditions
  6. Displacing Indigenous Peoples
  7. Paths to Modernisation
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### **POLITICAL SCIENCE**

**BOOK : 1st. India Constitution at Work**

1. Constitution Why And How
2. Rights In The Indian Constitution

**3. Election And Representation**

**4. Executive**

**5. Legislatures**

**6. Judiciary**

**7. Federalism**

**8. Local Governments**

**BOOK : 2nd. Political Theory**

**1. Political Theory- An Introduction**

**2. Freedom**

**3. Equality**

**4. Social Justice**

**5. Right**

**6. Citizenship**

**7. Nationalism**

**8. Secularism**

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**GEOGRAPHY**

Part I

- 1 . The origin evolution of earth
2. Interior of earth
3. Distribution of world continents Map
4. Composition of structure of the atmosphere
- 5 Solar Radiation, heat, balance
- 6 Water in atmosphere
- 7 water (Ocean)
- 8 Movement in ocean water

Part-2

- 1 India location
- 2 structure and physiography
- 3) Drainage-system
- 4) climate
- 5) Natural vegetation

## **ECONOMICS**

### Part A

#### Statistics for Economics

- Introductory part
- Collection of Data
- Organisation and Presentation of Data
- Statistical Tools and Interpretation (Arithmetic Mean, Median and Mode)
- Correlation.

### Part B

#### Introductory Microeconomics

- Introduction of microeconomics
- Consumer Equilibrium and Demand
- concept of cost
- Concept of revenue
- Producer Behaviour
- Concept of Supply
- Forms of Market
- Price Determination under Perfect competition with simple applications.

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## **SOCIOLOGY**

### **Part 1 Introducing Sociology**

Chapter -1. Sociology and Society:

Chapter 2 Terms, Concepts, and their Use in Sociology

Chapter - 3 Understanding Social Institutions

Chapter- 4 Culture and Socialization

### **Part 2 Understanding Society**

Chapter -5 Social Change and Social Order in Rural and Urban Society

Chapter -6 Introducing Western Sociologists

Chapter -7 Indian Sociologists

## **PHYSICS**

Chapter–2:UnitsandMeasurements

Chapter–3:MotioninaStraightLine

Chapter–4:MotioninaPlane

Chapter–5:Laws of Motion

Chapter–6:Work,EnergyandPower

Chapter–7:SystemofParticlesand

Chapter–8:Gravitation

Chapter–9:MechanicalPropertiesofSolids

Chapter–10:MechanicalPropertiesofFluids

Chapter–11:ThermalPropertiesofMatter

Chapter–12:Thermodynamics

Chapter–13:Kinetic Theory

Chapter–14:Oscillations

Chapter–15:Waves

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## CHEMISTRY

SN.	Chapter Name	Marks
1.	Some basic concepts of chemistry	7
2.	Structure of Atom	9
3.	Classification of Elements and Periodicity in Properties	6
4.	Chemical Bonding and Molecular Structure	7
5.	Chemical Thermodynamics	9
6.	Equilibrium	7
7.	Redox Reactions	4
8.	Organic Chemistry: Some basic Principles and Techniques	11
9.	Hydrocarbons	10

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## BIOLOGY

### Unit-I The living World

- Identify and classify different forms of life, including plants, animals, and microorganisms.
- Comprehend the concept of biodiversity and its significance in the ecosystem

### Unit-II Structural Organization of Plants and Animals

- Learn about the hierarchical classification of living organisms.
- Understand the principles of classification and the role of taxonomy in organizing diversity.

### Unit-III Cell- Structure and functions

- Investigate the structure of plant and animal cells, including organelles like nucleus, mitochondria, and endoplasmic reticulum.
- Explore the significance of cellular communication and cell signals.

### Unit-IV Plants Physiology

- Understand the process of photosynthesis and its importance in plants.

- Explore the mechanisms of respiration in plants and the exchange of gases and Phytohormones.

#### **Unit-V Human Physiology**

- Explore the Breathing, Circulatory, Excretory and Nervous system, including the structure and function.
  - Study Locomotion, muscle contraction and endocrine System
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### **PHYSICAL EDUCATION**

#### **1. Changing Trends and Career in Physical Education**

- Explore and comprehend the current trends in physical education and sports.
- Investigate various career opportunities in the field of physical education and sports.

#### **2. Olympism**

- Understand the core values of Olympism, including excellence, friendship, and respect.
- Explore the role of Olympism in promoting international understanding and peace.

#### **3. Yoga**

- Develop proficiency in performing various yoga asanas and sequences.
- Explore the holistic benefits of yoga for physical, mental, and emotional well-being.

#### **4. Physical Education & Sports for CWSN (Children with Special Needs)**

- Learn strategies for adapting physical education programs to meet the needs of children with special needs.
- Explore methods to enhance motor skill development for children with diverse abilities.

#### **5. Physical Fitness, Health, and Wellness**

- Understand the components of physical fitness and methods of assessment.
- Develop strategies for promoting a holistic approach to wellness through physical education.

#### **6. Test, Measurement, and Evaluation**

- Learn various techniques for assessing physical fitness, skills, and knowledge in sports.
- Implement effective evaluation strategies to inform instructional decisions in physical education.

#### **7. Fundamentals of Anatomy and Physiology in Sports**

- Identify and understand the major anatomical structures relevant to sports performance.
- Understand how training influences physiological adaptations for enhanced performance.

#### **8. Fundamentals of Kinesiology and Biomechanics in Sports**

- Understand the basic principles of biomechanics and their application in sports.
- Apply knowledge of kinesiology to enhance performance and prevent injuries.

#### **9. Psychology in Sports**

- Understand the role of goal-setting, imagery, and self-talk in enhancing athletic performance.
- Develop strategies for fostering a positive and cohesive team environment.

#### **10. Training and Doping in Sports**

- Design effective training programs to optimize athletic performance.

- Explore the ethical and health implications of doping in sports.

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## **ACCOUNTANCY**

1. BASIC ACCOUNTING TERMS
2. THEORY BASED ACCOUNTING (ONLY CONCEPT AND PRINCIPAL)
3. ACCOUNTING EQUATION
4. RULES OF DEBIT AND CREDIT
5. ORIGIN OF TRANSACTIONS
6. JOURNAL
7. LEDGER
8. SPECIAL PURPOSE BOOKS I – CASH BOOK
9. SPECIAL PURPOSE BOOKS II– OTHER BOOK
10. ACCOUNTING OF GOODS AND SERVICES TAX
11. BANK RECONCILIATION STATEMENTS
12. TRIAL BALANCE
13. DEPRECIATION
14. PROVISION AND RESERVE
15. FINANCIAL STATEMENTS OF SOLE PROPRIETORSHIP
16. ADJUSTMENTS IN PREPARATION OF FINANCIAL STATEMENTS
17. ACCOUNTS FROM INCOMPLETE RECORDS – SINGLE ENTRY SYSTEM

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## **BUSINESS STUDIES**

Unit 1- Nature and Purpose of Business

Unit -2- Forms of business organisation

Unit -3- Public, Private and Global Enterprises

Unit -4- Business Services

Unit - 5- Emerging Models of Business

Unit - 6- Social Responsibility of Business and Business Ethics

Unit - 7- Finance and trade

Unit - 8- Small Business

Unit - 9- Internal Trade

Unit -10- International Business

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## **INFORMATICS PRACTICES (NEW)**

<b>S. No.</b>	<b>Unit Name</b>	<b>Learning Objectives</b>
<b>1.</b>	<b>Unit 1: Introduction to computer system</b>	Understand the evolution, components, and basic architecture of computer systems. Differentiate between primary and secondary memory and comprehend data security concerns. Classify and appreciate the roles of different types of software in computing.
<b>2.</b>	<b>Unit 2: Introduction to Python</b>	Grasp foundational concepts of Python programming, including its structure and execution modes.

		Work effectively with Python data types, operators, and control structures.
3.	<b>Unit 3: Database concepts and the Structured Query Language</b>	Understand database concepts and Relational Database Management Systems. Retrieve and manipulate data in RDBMS using Structured Query Language Revise foundational database concepts and SQL commands. Apply advanced SQL functions and techniques, including aggregate functions and joins. Conduct advanced data operations with Group by, Having, and Order by commands.
4.	<b>Unit 4: Introduction to Emerging Trends</b>	Gain foundational knowledge of advanced technologies like AI, ML, and NLP. Explore and understand the principles and applications of AR, VR, and IoT. Recognize the importance and characteristics of Big Data and comprehend modern computing paradigms like Cloud Computing and Blockchain technology.

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## COMPUTER SCIENCE (NEW)

### Unit 1: Computer Systems and Organization

#### Computer System

**Understand components of a computer system:** hardware, software, and their functions.

Explain the architecture of a computer system, including CPU, I/O devices, and storage.

**Encoding Schemes and Number Systems:** Learn encoding schemes like ASCII and Unicode.

Convert between different number systems (binary, decimal, hexadecimal).

**Emerging Trends:** Explore advancements in AI, IoT, cloud computing, and blockchain.

Discuss the societal impacts of these technologies.

#### Learning Objectives:

- Recognize the relationship between computer components and their functions.
- Develop an understanding of encoding and its role in data representation.
- Analyze how emerging technologies impact daily life.

### Unit 2: Computational Thinking and Programming - 1

#### Introduction to Problem Solving

Understand the program development lifecycle: analysis, design, coding, and testing.

Develop algorithms using flowcharts and pseudocode.

**Getting Started with Python:** Use Python IDE for basic programming., Learn Python tokens, variables, and data types.

**Flow of Control:** Apply conditional statements (if-else) and loops (for, while) in programs.

**Functions:** Write reusable code using user-defined and built-in functions. Understand the scope of variables (local/global).

**Strings:** Perform operations on strings, such as slicing, concatenation, and traversal.

**Lists, Tuples, and Dictionaries:** Work with advanced data types to store and manipulate collections of data.

#### Learning Objectives:

- Develop computational thinking to solve problems using Python.
- Apply control structures and functions to write efficient programs.
- Understand and manipulate complex data types like strings, lists, and dictionaries.

### **Unit 3: Society, Law, and Ethics**

#### **Societal Impact**

- Understand cyber ethics, cyber safety, and cybercrime.
- Discuss the role of technology in promoting inclusivity.

#### **Learning Objectives:**

- Evaluate the ethical and legal considerations in using technology.
  - Reflect on the role of digital technology in shaping society.
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### **ENTREPRENEURSHIP**

Unit- 1- Entrepreneurship: Concept and Function

Unit -2- An Entrepreneur

Unit -3 - Entrepreneurship Journey

Unit -4- Entrepreneurship as Innovation and Problem solving

Unit -5- Concept of Market

Unit - 6- Business Arithmetic

Unit - 7- Resources Mobilization

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### **LEGAL STUDIES**

#### **Unit 1 Introduction to Political Institutions**

Chapter 1 : Concept of State

Chapter 2 : Forms and Organs of Government

Chapter 3 : Separation of Powers

#### **Unit 2 Basic Features of the Constitution of India**

Chapter 1 : Salient Features of the Constitution of India

Chapter 2 : Administrative Law

#### **Unit 3 Jurisprudence, Nature and Sources of Law**

Chapter 1 : Jurisprudence, Nature and Meaning of Law

Chapter 2 : Classification of Laws

Chapter 3 : Sources of Laws

Chapter 4 : Law Reforms

Chapter 5 : Cyber Laws, Safety and Security in India

#### **Unit 4 Judiciary : Constitutional, Civil and Criminal Courts and Processes**

Chapter 1 : Judiciary : Constitutional, Civil and Criminal Courts and Processes

#### **Unit 5 Family Justice System**

Chapter 1 : Institutional Framework - Marriage and Divorce

Chapter 2 : Child Rights

Chapter 3 : Adoption

Chapter 4 : Property, Succession and Inheritance

Chapter 5 : Prevention of Violence against Women

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### **BANKING**

UNIT 1 DEFINITION AND FUNCTIONS OF BANKING AND INDIAN BANKING SYSTEM

UNIT 2 BANKER & CUSTOMER

UNIT 3 EMPLOYMENT OF BANK FUNDS

UNIT 4 LAWS RELATING TO NEGOTIABLE INSTRUMENTS

## **APPLIED MATHEMATICS**

1. Numbers
  2. Indices and Logarithms
  3. Quantitative Aptitude
  4. Sets and Relations
  5. Sequences and Series.
  6. Permutations and Combinations
  7. Logical Reasoning
  8. Functions
  9. Limits and Continuity
  10. Differentiation
  11. Probability
  12. Descriptive Statistics
  13. Compound Interest and Annuity
  14. Taxation
  15. Utility Bills
  16. Straight Line
  17. Circle and Parabola
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## **FMM**

### **Chapter - 1 markets and financial instruments**

What is depository

What is regulator

Participants debt market

### **Chapter 2nd - primary and secondary market**

What is primary market ,issue of price ,ipo,what is prospectur, sebi role ,foreign capital issuance ,stock exchange stock trading equity investment debt investment

Corporate action index and settlement ,bookclosure date , record date ,

Sebi scores,

**Chapter 3** - simple intrest , compound intrest ,

**Chapter 4 , - mutual funds products and features** - mutual fund structure in India , what is custodian what is an nfo , role of registrar , investor right and obligation category wise funds, index fund , mid cap fund

**Chapter - 5 Etf, debt and liquid funds** - introduction to exchange traded funds, why gold etf sovereign gold bonds, credit risk , interest rate risk , gilt funds , balance funds , floating rate scheme,

**Chapter 6 - taxation and Regulations -**

Capital gains taxation , why fmps are popular advantage of mutual funds , what is SIP

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## **MUSIC**

1- Brief of the following :-

- Naad
- Shruti
- Swar
- Saptak
- That
- Jaati
- Taal
- Raga

2 - Life sketch :-

- Tansen
- V N Bhatkhande
- V D Paluskar

3 - Description of Prescribed Talas along with Taal Notation With thah , Dugun and Chaugun

- Teentaal
- Ektaal
- chau

4 - Knowledge of the Structure of Tanpura.

5 - Writing in notation the compositions of Prescribed Ragas .

- Bihag
  - Bhimpalasi
  - Bhairavi
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## **ARTIFICIAL INTELLIGENCE**

Part A:

Unit 1 to Unit 5:

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

Part B:

Unit 1,2,4,5,6,7,8

1. Introduction – AI for Everyone, 2. Unlocking Your Future in AI, 4. Introduction to Capstone Project,

5. Data Literacy -Data Collection to Data Analysis, 6. Machine Learning Algorithms

7. Leveraging Linguistics and Computer Science, 8. AI Ethics & Values

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