

**HOLY CHILD AUXILIUM SCHOOL  
FINAL EXAMINATION SYLLABUS (2023-2024)  
CLASS: XI**

**SUBJECT – ENGLISH CORE**

**Entire Syllabus of the Year.**

**80 MARKS**

**Reading:**

Unseen passage to assess comprehension, interpretation and inference. Vocabulary and inference of meaning will also be assessed. The passage may be factual, descriptive or literary. Unseen case-based factual passage with verbal/visual inputs like statistical data, charts etc. Unseen passage for Note Making and Summarizing.

**Grammar:** Gap filling, Re-ordering/transformation of sentences, editing and omission.

**Writing:** Posters, Advertisements, Debate, Speech

**Literature:**

**HORNBILL Textbook**

**Prose:** The Portrait of a Lady, We're not afraid to die..., Discovering Tut, Silk Road, Adventure.

**Poetry:** A Photograph, The Laburnum Top, Voice of the Rain, Childhood, Father to Son

**SNAPSHOTS textbook:** The Summer of the Beautiful White Horse, The Address, Birth, Mother's Day (Play), The Tale of Melon City (Poetry)

**SUBJECT- HISTORY (80 MARKS)**

**CHAPTERS:**

- 1) WRITING AND CITY LIFE.
- 2) AN EMPIRE ACROSS THREE CONTINENTS.
- 3) NOMADIC EMPIRES.
- 4) THE THREE ORDERS.
- 5) CHANGING CULTURAL TRADITIONS.
- 6) DISPLACING INDIGENOUS PEOPLES.
- 7) PATHS TO MODERNISATION.

**MAP – WORLD MAP**

**SUBJECT– POLITICAL SCIENCE (80 MARKS)**

**Book 1 – Indian Constitution at Work**

Chapter 3, 4, 5,6,7,8,9,10

## **Book 2 – Political Theory**

- Chapter- 1 Political Theory: An Introduction
- Chapter -2 Freedom
- Chapter -3 Equality
- Chapter -4 Social Justice
- Chapter- 5 Rights
- Chapter -6 Citizenship
- Chapter -7 Nationalism
- Chapter -8 Secularism

## **SUBJECT- SOCIOLOGY (80 MARKS)**

### **Book 1**

- Chapter 2 – Terms, Concepts and their use in Sociology
- Chapter 3 – Understanding Social Institutions
- Chapter 4 - Culture and Socialization

### **Book 2**

- Chapter 2 – Social Change and Social Order in Rural and Urban Society
- Chapter 4 – Introducing Western Sociologists
- Chapter 5 – Indian Sociologists

## **SUBJECT – ECONOMICS (80 MARKS)**

### **Statistics**

- Diagrammatic Presentation of Data: Bar diagrams and pie diagrams
- Measures of Central Tendency- Arithmetic mean, Median and Mode
- Correlation – Scatter diagram- Karl Pearson's method- Spearman's rank correlation
- Introduction to Index Numbers- Simple Aggregative Method

### **Micro Economics**

- Demand- Price elasticity of demand
- Producer Behaviour and Supply- Production function, Cost, Revenue, Producer's equilibrium, Supply, Price elasticity of supply Perfect competition, Market equilibrium, Price ceiling, Price floor

## **SUBJECT- ACCOUNTANCY (80 MARKS)**

### **CHAPTERS:**

- Ch-8 Journal
- Ch-9 Ledger
- Ch-10 cash book

Ch-11 subsidiary books  
Ch-12 GST  
Ch-13 BRS  
Ch-14 Trial balance  
Ch-15 Depreciation  
Ch-16 provisions and reserves  
Ch-17 Rectification  
Ch-18 Financial statements  
Ch-19 Adjustments  
Ch-20 Single entry system

### **SUBJECT- BUSINESS STUDIES (80 MARKS)**

#### **CHAPTERS:**

Chapter 2: Forms of Business Organisations

Chapter 5: Emerging Modes of Business.

Chapter 6: Social Responsibilities of Business and Business Ethics.

Chapter 7: Formation of a company.

Chapter 8: Sources of Business Finance.

Chapter 9: Small Business and Entrepreneurship.

Chapter 10: Internal Trade.

Chapter 11: International Business.

### **SUBJECT - MATHEMATICS ( 80 MARKS)**

**CHAPTERS:** 1. Relations and Functions

2. Trigonometric Functions

3. Linear Inequations

4. Permutations and Combinations

5. Straight Lines

6. Conic Sections

7. Introductions to Three-Dimensional Geometry

8. Limits and Derivatives

9. Statistics

10. Probability

## **SUBJECT- PHYSICS (70 MARKS)**

### **CHAPTERS:**

CHAPTER 3-- MOTION IN A PLANE

CHAPTER 4-- LAWS OF MOTION

CHAPTER 5-- WORK, ENERGY AND POWER

CHAPTER 6-- ROTATIONAL MOTION

CHAPTER 7-- GRAVITATION

CHAPTER 8-- MECHANICAL PROPERTIES OF SOLID

CHAPTER 9- MECHANICAL PROPERTIES OF FLUIDS

CHAPTER 10--THERMAL PROPERTIES OF MATTER

CHAPTER 11--THERMODYNAMICS

CHAPTER 13--OSCILLATIONS

CHAPTER 14--WAVES

### **PRACTICAL:**

**30 MARKS**

## **SUBJECT- BIOLOGY (80 MARKS)**

### **CHAPTERS:**

Chapter 8 Cell: The Unit Of Life

Chapter 9 Biomolecules

Chapter 10 Cell Cycle & Cell Division

Chapter 13 Photosynthesis In Higher Plants

Chapter 14 Respiration In Plants

Chapter 15 Plant Growth & Development ; Plant Growth Regulators

Chapter 17 Breathing & Exchange Of Gases

Chapter 18 Body Fluids & Circulation

Chapter 19 Excretory Products & Elimination

Chapter 20 Locomotion & Movement

Chapter 21 Neural Control & Coordination

Chapter 22 Chemical Control & Coordination

### **Practical**

**30 Marks**

## **SUBJECT – CHEMISTRY (70 MARKS)**

### **CHAPTERS:**

- 1) Ch.1 - Basics of Chemistry- Molarity, Molality and mole fraction
- 2) Ch.2 - Structure of atom -de Broglie relationship, Heisenberg uncertainty principle, limitations of Bohr theory, Quantum mechanical model of an atom.
- 3) Ch 3- Periodic Classification of elements and periodicity of properties,
- 4) Ch. 4- Chemical Bonding and Molecular structure
- 5) Ch. 6- Chemical Equilibrium
- 6) Ch. 8- Basics of Organic Chemistry
- 7) Ch.9- Hydrocarbons

**Practical :**

**30 Marks**

## **SUBJECT– COMPUTER SCIENCE (083)**

### **Unit I: Computer Systems and Organisation**

**10 Marks**

- Basic computer organisation: Introduction to Computer System, hardware, software, input device, output device, CPU, memory (primary, cache and secondary), units of memory ( bit, byte, KB, MB, GB, TB, PB)
- Types of software: System software (Operating systems, system utilities, device drivers), programming tools and language translators (assembler, compiler, and interpreter), application software
- Operating System (OS): functions of the operating system, OS user interface
- Boolean logic: NOT, AND, OR, NAND, NOR, XOR, NOT, truth tables, Logic circuits
- Number System: Binary, Octal, Decimal and Hexadecimal number system; conversion between number systems

### **Unit II: Computational Thinking and Programming – 1**

**45 Marks**

- Familiarization with the basics of Python programming: Introduction to Python, Features of Python, execution modes: interactive mode and script mode, Python character set, Python tokens( keyword, identifier, literal, operator, punctuator), variables
- Knowledge of data types: Number (integer, floating point, complex), boolean, sequence(string, list, tuple), None, Mapping(dictionary), mutable and immutable data types.
- Operators: arithmetic operators, relational operators, logical operators, assignment operators, augmented assignment operators, identity operators (is, is not), membership operators (in not in)
  - Expressions, statement, type conversion, and input/output: precedence of operators, expression, evaluation of an expression, type-conversion (explicit and implicit conversion), accepting data as input from the console and displaying output.
- Conditional statements: if, if-else, if-elif-else, flowcharts, simple programs: e.g.: absolute value, sort 3 numbers and divisibility of a number.
- Iterative Statement: for loop, range(), while loop, flowcharts, break and continue statements, nested loops,

- Strings: introduction, string operations (concatenation, repetition, membership and slicing), traversing a string using loops, built-in functions/methods—len(), capitalize(), title(), lower(), upper(), count(), find(), index(), endswith(), startswith(), isalnum(), isalpha(), isdigit(), islower(), isupper(), isspace(), lstrip(), rstrip(), strip(), replace(), join(), partition(), split()
- Lists: introduction, indexing, list operations (concatenation, repetition, membership & slicing), traversing a list using loops, built-in functions: len(), list(), append(), extend(), insert(), count(), index(), remove(), pop(), reverse(), sort(), sorted(), min(), max(), sum(); nested lists.
- Tuples: introduction, indexing, tuple operations (concatenation, repetition, membership & slicing), built-in functions: len(), tuple(), count(), index(), sorted(), min(), max(), sum(); tuple assignment, nested tuple.
- Dictionary: introduction, accessing items in a dictionary using keys, mutability of dictionary (adding a new item, modifying an existing item), traversing a dictionary, built-in functions: len(), dict(), keys(), values(), items(), get(), update(), del, clear(), fromkeys(), copy(), pop(), popitem(), setdefault(), max(), min(), count(), sorted(), copy();
- Introduction to Python modules: Importing module using 'import ' and using from statement, Importing math module (pi, e, sqrt, ceil, floor, pow, fabs, sin, cos, tan); random module (random, randint, randrange), statistics module (mean, median, mode)

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

**15 Marks**

- Digital Footprints
- Digital society and Netizen: net etiquettes, communication etiquettes, social media etiquettes
- Data protection: Intellectual Property Right (copyright, patent, trademark), violation of IPR (plagiarism, copyright infringement, trademark infringement), open source software and licensing (Creative Commons, GPL and Apache)
- Cyber-crime: definition, hacking, eavesdropping, phishing and fraud emails, ransomware, preventing cyber crime
- Cyber safety: safely browsing the web, identity protection, confidentiality, cyber trolls and bullying.
- Safely accessing web sites: malware, viruses, Trojans, adware
- E-waste management: proper disposal of used electronic gadgets
- Indian Information Technology Act (IT Act)
- Technology & Society: Gender and disability issues while teaching and using computers

### **Practical:**

**30 Marks**

## **SUBJECT – INFORMATICS PRACTICES (065)**

### **Unit 1: Introduction to Computer System**

**10 Marks**

Introduction to computer and computing: evolution of computing devices, components of a computer system and their interconnections, Input/output devices. Computer Memory: Units of memory, types of memory – primary and secondary, data deletion, its recovery and related security concerns. Software: purpose and types – system and application software, generic and specific purpose software.

### **Unit 2: Introduction to Python Basics of Python programming**

**25 Marks**

Python interpreter - interactive and script mode, the structure of a program, indentation, identifiers, keywords, constants, variables, types of operators, precedence of operators, data types, mutable and immutable data types, statements, expressions, evaluation and comments, input and output statements, data type conversion, debugging.

Control Statements: if-else, if-elif-else, while loop, for loop

Lists: list operations - creating, initializing, traversing and manipulating lists, list methods and built-in functions – len(),list(),append(),insert(), count(),index(),remove(), pop(), reverse(), sort(), min(),max(),sum()

Dictionary: concept of key-value pair, creating, initializing, traversing, updating and deleting elements, dictionary methods and built-in functions – dict(), len(), keys(), values(), items(), update(), del(), clear()

**Unit 3: Database concepts and the Structured Query Language 30 Marks**

Database Concepts: Introduction to database concepts and its need, Database Management System. Relational data model: Concept of domain, tuple, relation, candidate key, primary key, alternate key Advantages of using Structured Query Language, Data Definition Language, Data Query Language and Data Manipulation Language, Introduction to MySQL, creating a database using MySQL, Data Types Data Definition: CREATE TABLE Data Query: SELECT, FROM, WHERE. Data Manipulation: INSERT

**Unit 4: Introduction to the Emerging Trends 5 Marks**

Artificial Intelligence, Machine Learning, Natural Language Processing, Immersive experience (AR, VR), Robotics, Big data and its characteristics, Internet of Things (IoT), Sensors, Smart cities, Cloud Computing and Cloud Services (SaaS, IaaS, PaaS); Grid Computing, Block chain technology

**Practical: 30 Marks**

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