

TERM 2 EXAMINATION SYLLABUS

YEAR 2021-22

CLASS-XI (A,B,C,D,E)

ENGLISH (301)

A. Reading Comprehension: 13 Marks

Unseen passage (factual, descriptive or literary/ discursive or persuasive) -8 Marks

Unseen passage for Note Making and Summarizing -5 Marks

B. Writing: 12 Marks

Short Writing Tasks-Posters-3 Marks

Long Writing Tasks Official Letters: e.g.to school/college authorities (regarding admissions, school issues, requirements / suitability of courses)

Debate-5 Marks

Grammar-Determiners, Tenses (Re-ordering of Sentences, MCQs on Gap filling/ Transformation of Sentences)-4 Marks

C. Literature: 15 Marks

Questions based on extracts/texts to assess comprehension and appreciation, analysis, inference, extrapolation (9 Marks for Hornbill + 6 Marks for Snapshots)

Book-Hornbill:

The Voice of the Rain (Poem), The Ailing Planet: The Green Movement's Role (Prose), The Browning Version (Play), Childhood (Poem), Silk Road (Prose)

Book- Snapshots: Albert Einstein at School (Prose), Mother's Day (Play), Birth (Prose)

Term II: 10 Marks Project Work + Viva (ASL)

(Out of ten marks allotted for the term, 5 marks will be allotted for the project report/script /essay etc. and 5 marks for the viva.)10 Marks

Total Marks (40 + 10) = 50 MARK

HISTORY (027)

- 1.Changing Cultural Traditions.
- 2.The Industrial Revolution
- 3.Displacing Indigenous Peoples
- 4.Paths to Modernisation

Map- Europe

Total- 40 marks

10 marks for each chapter.

POLITICAL SCIENCE (028)

Total – 40 Marks

Book -1 (Indian Constitution at Work)

Chapter 4 Executive

Chapter 5 Legislature

Chapter 6 Judiciary

Book -2 (Political theory)

Chapter 2 Freedom

Chapter 3 Equality

Chapter 4 Social Justice

SOCIOLOGY (039)

Book 2 - Understanding Society

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

ACCOUNTS (055)

Ch 5 Accounting equation

Ch 15 Depreciation

Ch 17 Accounting for bills of exchange

Ch 18 Rectification of errors

Ch 20 Adjustments in preparation of financial statements(includes ch 19)

Ch 21 Single entry system

Ch 22 computers in accounting

BUSINESS STUDIES (054)

Ch 2 Forms of business organizations

(includes ch 7)

Ch 8 Sources of Business finance

Ch 9 MSME and entrepreneurship

Ch 10 Internal trade

Ch 11 International business

Informatics Practices (065)

MM: 35 Marks

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 attribute, domain, tuple, relation, candidate key, primary key, alternate key, foreign key.
- Structured Query Language: Data Definition Language, Data Query Language and Data Manipulation Language, Introduction to MySQL: Creating a database, using database, showing tables using MySQL,
- Data Types : char, varchar, int, float, date.
- Data Definition Commands: CREATE, DROP, ALTER (Add and Remove primary key, attribute). Data Query Commands: SELECT-FROM- WHERE, LIKE, BETWEEN, IN, ORDER BY, using arithmetic, logical, relational operators and NULL values in queries, Distinct clause Data Manipulation Commands: INSERT, UPDATE, DELETE.

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.

Computer Science (083)

MM: 35 Marks

Unit II: Computational Thinking and Programming

20 Marks

- **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 softwares 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

MATHEMATICS (041)

CHAPTERS: 1. Trigonometric Functions

2. Linear Inequalities

3. Permutations and Combinations

4. Conic Sections

5. Introductions to three-dimensional geometry

6. Derivatives

7. Probability

BIOLOGY
(Code No. 044)

Unit-III Cell: Structure and Function

Chapter no.	Name
Ch-10	Cell Cycle and Cell Division

Unit-IV Plant Physiology

Chapter no.	Name
Ch-13	Photosynthesis in Higher Plants
Ch-14	Respiration in Plants
Ch-15	Plant Growth and Development

Unit-V Human Physiology

Chapter no.	Name
Ch-17	Breathing and Exchange of Gases
Ch-18	Body Fluids and Circulation
Ch-19	Excretory Products and their Elimination
Ch-20	Locomotion and Movement
Ch-21	Neural Control and Coordination
Ch-22	Chemical Coordination and Integration

Economics (030)

Part A (20 marks): Statistics for Economics

Measures of Dispersion – Standard Deviation, Coefficient of Variation.

Correlation – Meaning and properties, Scatter diagrams, Karl Person's Coefficient of Corelation.

Index Numbers – Meaning, Consumer price index.

Part B (20 marks): Introductory Microeconomics

Production Function, Total Product, Average Product, and Marginal Product, Returns to a Factor.

Cost – Total Cost, Average Cost, Total Fixed Cost, Total Variable Cost, Average Fixed Cost and Marginal Cost – Meaning and their relationships.

Revenue – Total, Average and Marginal Revenue – Meaning and their Relationships.

Supply and Price Elasticity of Supply.

Perfect Competition – Features, Market Equilibrium, Shifts in Demand and Supply Curve, Price ceiling and Price floor.

PHYSICS XI (Code No. 042)

Total --35 Marks

Chapter–9: Mechanical Properties of Solids

Chapter–10: Mechanical Properties of Fluids

Chapter–11: Thermal Properties of Matter

Chapter–12: Thermodynamics

Chapter–14: Oscillations

Chapter–15: Waves

CHEMISTRY (043)

MAX. MARKS : 35

TIME : 2 Hrs.

THEORY SYLLABUS

1. Chapter 5- States of matter
2. Chapter 6- Chemical Thermodynamics
3. Chapter 7- Equilibrium
4. Chapter 10 – s-Block elements
5. Chapter 11 – p-Block elements
6. Chapter 13 – Hydrocarbons

PRACTICALS : 15 Marks

VALUE EDUCATION

Chapter 8 Quitting Smoking

Chapter 9 Combating Drug Abuse

Chapter 11 Manners and Etiquette

Chapter 12 Developing Talents