CREDENCE HIGH SCHOOL, DUBAI
SYLLABUS

ANNUAL EXAMINATION (G9 & G11)-2024-2025

INDEX

CREDENCE HIGH SCHOOL, DUBAI
SYLLABUS - ANNUAL EXAMINATION - G9 & G11 - 2024-2025

GRADE - 9	
SUBJECT	**SYLLABUS - ANNUAL EXAMINATION - 2024-2025**
ENGLISH	**Total Marks (80)** **Section A :** **Reading comprehension (Discursive and Case based Passages) 20 Marks** **Section B : Writing Skills & Grammar** **Grammar 10 Marks** 1. Tenses 2. Modals 3. Subject verb concord 4. Reported Speech **Writing 10 Marks** 1. Descriptive Writing of a Place 2. Descriptive Writing of a Person 3. Diary Writing 4. Story Writing **Section C : Language through Literature (Beehive and Moments) 40 Marks** <u>**Beehive (Prose)**</u> 1. The Sound of Music (Deborah Cowley) 2. The Little Girl (Katherine Mansfield) 3. The Snake and the Mirror (V.M.Basheer) 4. My Childhood (A.P.J. Abdul Kalam) 5. The Fun They Had(Isaac Asimov)

6. Reach for the Top(Santosh Yadav/Maria Sharapova)

7. Kathmandu(Vikram Seth)

8. If I were you (Douglas James)

9. A Truly Beautiful Mind(Albert Einstein)

Beehive (Poem)

1. The Road Not Taken(Robert Frost)

2. Wind (Subramania Bharati)

3. Rain on the Roof (Coates Kinney)

4. No Men Are Foreign(James Kirkup)

5. On Killing a Tree(Gieve Patel

6. A Slumber did My Spirit Seal(William Wordsworth)

7. The Lake Isle of Innisfree (W.B.Yeats)

8. A Legend of the Northland.(Phoebe Cary)

Moments:

1. The Lost Child (Mulk Raj Anand)

2. The Adventures of Toto(Ruskin Bond)

3. The Happy Prince(Oscar Wilde)

4. The Beggar(Anton Chekhov)

5. The Last leaf(O Henry)

6. A House is Not a Home(Zan Gaudioso)

7. In the Kingdom of Fools(A.K.Ramanujan)

8. Iswaran the Storyteller (R.K.Laxman)

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SYLLABUS - ANNUAL EXAMINATION - G9 & G11 - 2024-2025

MATHEMATICS	**Total Marks (80)** 1. Number System **(10 Marks)** 2. Polynomials **(10 Marks)** 3. Coordinate Geometry **(5 Marks)** 4. Linear Equations in Two Variables **(5 Marks)** 5. Euclid's Geometry **(4 Marks)** 6. Lines and Angles **(6 Marks)** 7. Triangles **(6 Marks)** 8. Quadrilaterals **(6 Marks)** 9. Circles **(6 Marks)** 10. Heron's Formula **(6 Marks)** 11. Surface Areas and Volumes **(10 Marks)** 12. Statistics **(6 Marks)**
SCIENCE	**Total Marks (80)** **Chemistry (25 Marks)** 1. **Matter in Our Surroundings (5 Marks)** 2. **Is Matter Around Us Pure? (5 Marks)** 3. **Atoms and Molecules (8 Marks)** 4. **Structure of the Atom (7 Marks)** **Physics (25 Marks)** 1. **Motion (4 Marks)** 2. **Force and laws of motion (4 Marks)** 3. **Gravitation (5 Marks)** 4. **Work and energy (6 Marks)** 5. **Sound (6 Marks)** **Biology (30 Marks)** 1. **Fundamental Unit of Life (6 Marks)** 2. **Tissues (6 Marks)** 3. **Improvement in food resources (18 Marks)**

HINDI	**Total Marks (80)**
	1. READING (पठन)
	○ **(Unseen Passages-2) (14 Marks)**
	2. GRAMMAR- (व्याकरण) (16 Marks)
	○ अनुस्वार
	○ अनुनासिक
	○ उपसर्ग और प्रत्यय
	○ शब्द और पद
	○ संधि
	○ विराम चिह्न
	○ वाक्य
	3. LITERATURE- (गद्य और पद्य)(30 Marks)
	○ अतिथि तुम कब जाओगे ?
	○ दुख का अधिकार
	○ शुक्र तारे के समान
	○ वैज्ञानिक चेतना के वाहक- सी वि रामन
	○ कविताएँ -रहीम के दोहे, अग्निपथ, नए इलाके में.
	○ संचयन- गिल्लू और स्मृति
	4. WRITING-(रचनात्मक लेखन) (20 Marks)
	○ अनुच्छेद लेखन
	○ अनौपचारिक पत्र लेखन
	○ संवाद लेखन
	○ चित्र वर्णन
FRENCH	**Total Marks (80)**
	Compréhension écrite : (10 Marks)
	- **Questions that require short answers (complete sentences)**
	- **True / false**
	- **MCQ**
	- **Vocabulary search**

Expression écrite : (20 Marks)

- Letter writing
- Message writing (accepting/ refusing or inviting)
- Dialogue rearranging
- Filling the blanks

Grammaire : (30 Marks)

- Les adjectifs démonstratifs
- Posez/Trouvez la question
- Pronoms COD / COI / EN
- Les pronoms relatifs simples (que / qui)
- La conjugaison (le présent, le futur proche et simple, passé composé, imparfait, passé récent, le conditionnel présent et l'impératif)

Culture et civilisation : (20 Marks)

- Short answers (Focus on framing simple sentences)
- True / false
- Match the following
- Fill in the blanks (words will be provided)

All lessons done in the class from Setrite (Grade 9)

MALAYALAM	
	Total Marks (80)
	READING COMPREHENSION (POEM) (15 Marks)
	WRITING (14 Marks)
	ഉപന്യാസം, കത്ത്(ഔദ്യോഗികം) പത്രവാർത്ത
	GRAMMAR- (8 Marks)
	• അംഗാംഗിവാക്യം ,വിധി നിഷേധം, വാക്യശുദ്ധി, പ്രയോഗം മാറ്റുക,വാക്യത്തിൽ പ്രയോഗിക്കുക .
	LITERATURE :(Prose and poem) (43 Marks)
	• രണ്ട് ടാക്സിക്കാർ (ഗദ്യം)
	• വെള്ളച്ചാട്ടത്തിന്റെ ഇടിമുഴക്കം (ഗദ്യം)
	• ആർഭാടത്തിൽ നിന്ന് ലാളിത്യത്തിലേക്ക് (ഗദ്യം)

	• വിശ്വം ദീപമയം (പദ്യം) • കാളകൾ (പദ്യം) • അതേ പ്രാർത്ഥന (പദ്യം) • അമ്പാടിയിലേക്ക് (പദ്യം) **SUPPLEMENTARY(**തേജസ്വിയായ വാഗ്മി**) (8 & 9 chapters)**
SOCIAL SCIENCE	**Total Marks (80)** **History (India and the contemporary world)** Chapter- The French Revolution **(6 Marks)** Chapter 2 Socialism in Europe and the Russian Revolution **(6 Marks and 2 Marks Map pointing)** Chapter- 3 Nazism and the rise of Hitler **(6 Marks)** **Political Science (Democratic Politics-1)** Chapter 1 What is Democracy and Why Democracy **(4 Marks)** Chapter 2 Constitutional Design **(4 Marks)** Chapter 3 Electoral Politics **(2 Marks)** Chapter-4 Working of Institutions **(4 Marks)** Chapter-5 Democratic Rights **(6 Marks)** **Geography (Contemporary India-1)** Chapter-1 India - Size and Location **(2 Marks)** Chapter- 2 Physical Features of India **(1 Mark)** Chapter 3 Drainage **(2 Marks)** Chapter-4 Climate **(9 Marks)** Chapter-5 Natural vegetation and wildlife (**Only map pointing to be evaluated) (1 Mark)** Chapter- 6 Population **(5 Marks)** **(Map-based questions from all Geography chapters)**

	Economics Chapter- 2 People as a Resource **(7 Marks)** Chapter 3 Poverty as a challenge **(7 Marks)** Chapter 4 Food Security in India **(6 Marks)**
ARABIC	**Question paper 1** **Total Marks (40)** **Reading and Vocabulary :** (20 Marks) - **Unseen passage** - **Topics (sports , Environment and pollution , How the dream may come true)** **Grammar** (10 Marks) - **Previous knowledge** - **Prohibition style** - **Negation style** **Writing** (10 Marks) - **Write paragraph** - **Use the word to for sentences** - **Describe the pictures** **Question paper 2** **Total Marks (40)** **Reading and Vocabulary :** (20 Marks) - **Unseen passage** - **Topics (sports , Environment and pollution , How the dream may come true)** **Grammar** (10 Marks) - **Previous knowledge** - **Prohibition style** - **Negation style**

Writing   **(10 Marks)**

- Write paragraph
- Use the word to for sentences
- Describe the pictures

Question paper 3

Total Marks (40)

Reading and Vocabulary :   **(20 Marks)**

- Topics (sports , Environment and pollution , How the dream may come true)

Grammar   **(10 Marks)**

- Previous knowledge
- Prohibition style
- Negation style

Writing   **(10 Marks)**

- Write a paragraph .
- Design Poster .
- Use the word to for sentences .
- Describe the pictures .

Question paper 4

Total Marks (40)

Reading and Vocabulary :   **(20 Marks)**

- Topics (Celebrates , In the restaurant , Story about Shasbeer

Grammar   **(10 Marks)**

- Adverb   for time and place
- Proposition letter
- Present tense

Writing   **(10 Marks)**

- Write Sentences
- Rearrange the words to make Sentences

	- **Describe the pictures**
ARABIC CBSE	**Total Marks (80)** **A) Reading Section:** **10 Marks** 1. Unseen passage in simple Arabic (About 80 words) **B) Writing Section:** **10 Marks** 1. Short Paragraph in Arabic 2. Use of word in sentences 3. Fill in the blanks 4. Correction of Sentences **C) Grammar and Translation Section:** **20 Marks** a) Grammar: (i) Mudaaf & Mudaf Ilaihi (ii) Conjugation (Sound Verbs only) (iii) Sifat -Mausuf (iv) Jaar-Majroor (v) Ism Ishaarah' (vi) Ismul Faa'l wa Ism Mafool (iv) jumlah ismiyah wa jumlah faailia b) Translation (i) Translation of simple sentences of Arabic into English and vice-versa **D) Literature:** **40 Marks** Prose and Poetry Prescribed lessons from the textbook:

	Prose: Unit: 3,4 = (Total 4 lessons) Poetry: Unit 3,4 = (Total 2 lessons)
ISLAMIC EDUCATION	**Total Marks (50 Written - 40, Quran Recitation - 10)** ● **Surah Al-Waqiyah (1-16)** **(8 Marks)** ● **The Seven grave sins** **(8 Marks)** ● **No to Suicide** **(8 Marks)** ● **Etiquettes in the market and Public utilities** **(8 Marks)** ● **Social laws in the Holy Quran** **(8 Marks)** ● **Recitation of Surah Al-Waqiah (16 Ayat)** **(10 Marks)**
ARTIFICIAL INTELLIGENCE	**Total Marks (50)** **AI Project Cycle** - Problem Scoping, Data Acquisition, Data Exploration, Modeling , Evaluation , Deployment, 4Ws problem canvas, Data Visualisation. **(10 Marks)** **Data Literacy** - Introduction to Data Literacy,Impact of Data Literacy, How to become Data Literate, Data security and privacy, Acquiring Data, Processing, and Interpreting Data ,Types of data. **(8 Marks)** **Importance of Math for AI** - Finding Patterns in Numbers and images, Uses of Math - ○ Statistics ○ Linear Algebra ○ Probability ○ Calculus, Application in various real life scenarios , Introduction to Probability, Types of events. **(10 Marks)** **Introduction to GEN AI** - Introduction to Generative AI, types of Generative AI, Benefits and Limitations of using Generative AI.**(8 Marks)** **Python Programming** - Variables, Data types, Control and conditional statements. **(14 Marks)**
MSC	**Total Marks (30)** **Lesson-3 Global Ethical Challenges (9 Marks)** **Lesson-1 Realising The Value of Money (6 Marks)** **Lesson-1 The Rise of Islamic Civilizations in the land of UAE (5 Marks)** **Lesson-1 Shaikh Zayed and the UAE (10 Marks)**

GRADE - 11	
SUBJECT	**SYLLABUS - ANNUAL EXAMINATION - 2024-2025**

ENGLISH	**Total Marks (80)**
	
	 A. Reading Comprehension - (26 Marks)
	
	    i. Unseen Passages (18 marks)
	
	    ii. Note Making & Summarizing - (8 marks)
	
	 B. Grammar - Integrated Grammar (7 Marks)
	
	 C. Writing Skills - (16 Marks)
	
	    i.Classified Advertisement (3 mks)
	
	    ii. Poster (3 mks)
	
	    iii. Speech Writing (5 marks)
	
	    iv. Debate Writing marks (5 marks)
	
	 D. Literature - (31 Marks)
	 I. Snapshot -
	
	   i. The Summer of the Beautiful White Horse (Prose)
	
	   ii. The Address(Prose)
	
	   iii. Mother's Day (Play)
	
	   iv. Birth (Prose)
	
	   v. The Tale of Melon City (Poem)

	II. Hornbill -
	
	  i. The Portrait of a Lady (Prose)
	
	  ii. A Photograph (Poem)
	
	  iii. We are not afraid… (Prose)
	
	  iv. Discovering Tut (Prose)
	
	  v. The Laburnum Top (Poem)
	
	  vi. The Voice of the Rain (Poem)
	
	  vii.Childhood (Poem)
	
	  viii. The Adventure (Prose)
	
	  ix. Silk Road (Prose)
	
	  x. Father to Son (Poem)

MATHEMATICS	**Total Marks (80)** 1.Sets **(9 Marks)** 2.Relation and Function **(5 Marks)** 3.Trigonometric Function **(9 Marks)** 4.Complex Number and Quadratic equation **(4 Marks)** 5.Linear Inequality **(2 Marks)** 6.Permutation and Combination **(7 Marks)** 7.Binomial Theorem **(3 Marks)** 8.Sequence and Series **(7 Marks)** 9.Straight line **(6 Marks)** 10. Conic Section **(5 Marks)** 11.Introduction to 3D**(3 Marks)**

	12.Limits and Derivative **(8 Marks)** 13.Statistics **(6 Marks)** 14.Probability **(6 Marks)**
APPLIED MATHEMATICS	**Total Marks (80)** 1. Numbers, Quantification and Numerical Applications **(15 Marks)** 2. Algebra **(12 Marks)** 3. Mathematical Reasoning **(5 Marks)** 4. Calculus **(18 Marks)** 5. Probability **(8 Marks)** 6. Descriptive Statistics **(8 Marks)** 7. Basics of Financial Mathematics **(8 Marks)** 8. Coordinate Geometry **(6 Marks)**
PAINTING	**Total Marks (30)** 1. Prehistoric Rock Paintings and Arts of the Indus Valley **(10 Marks)** 2. Arts of the Mauryan Period and Post-Mauryan Trends in Indian Art and Architecture **(10 Marks)** 3. Later Mural Traditions , Temple Architecture and Sculpture , Indian Bronze Sculpture and Some Aspects of Indo-Islamic Architecture **(10 Marks)**
ACCOUNTANCY	**Total Marks (80)** **Unit-1: Theoretical Framework (12 Marks)** Basic Accounting Terms Theory Base of Accounting System of Accounting. Basis of Accounting:-Cash basis and accrual basis **Unit-2: Accounting Process (44 Marks)** Accounting Equation

	Rules of Debit and Credit
	Journal
	Ledger
	Special Purpose Book-1 & 2
	GST
	Trial Balance
	Bank Reconciliation Statement
	Depreciation
	Rectification of Errors
	Unit-3: Financial Statements of Sole Proprietorship (24 Marks)
	Financial Statements of Sole Proprietorship.
	Financial Statements- with adjustment
	Incomplete Records.
PHYSICS	**Total Marks (70)** 1. **Units and measurements (3 Marks)** 2. **Motion in a straight line (5 Marks)** 3. **Motion in a plane (6 Marks)** 4. **Laws of motion (9 Marks)** 5. **Work, energy and power (6 Marks)** 6. **System of particles and Rotational motion (5 Marks)** 7. **Gravitation (6 Marks)** 8. **Mechanical properties of solids (3 Marks)** 9. **Mechanical properties of Fluids (6 Marks)** 10. **Thermal properties of matter (4 Marks)** 11. **Thermodynamics (4 Marks)** 12. **Kinetic theory of gases (3 Marks)** 13. **Oscillations (5 Marks)** 14. **Waves (5 Marks)**

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BIOLOGY	**Total Marks (70)**
	
	Unit I: Diversity of the Living World (15 Marks)
	
	  1. The Living World **(5 Marks)**
	  2. Biological Classification **(5 Marks)**
	  3. Plant & Animal Kingdom **(5 Marks)**
	
	Unit II: Structural Organisation in Animals and Plants (10 Marks)
	
	  1. Morphology of Flowering Plants **(5 Marks)**
	  2. Anatomy of Flowering Plants **(3 Marks)**
	  3. Structural Organisation in Animals **(2 Marks)**
	
	Unit III: Cell Structure and Function (15 Marks)
	
	  1. Cell: The Unit of Life **(5 Marks)**
	  2. Biomolecules **(5 Marks)**
	  3. Cell Cycle and Cell Division **(5 Marks)**
	
	Unit IV: Plant Physiology (12 Marks)
	
	  1. Photosynthesis in Higher Plants **(4 Marks)**
	  2. Respiration in Plants **(4 Marks)**
	  3. Plant Growth and Development **(4 Marks)**
	
	Unit V: Human Physiology (18 Marks)
	
	  1. Breathing and Exchange of Gases **(2 Marks)**
	  2. Body Fluids and Circulation **(3 Marks)**
	  3. Excretory Products and Their Elimination **(4 Marks)**
	  4. Locomotion and Movement **(3 Marks)**
	  5. Neural Control and Coordination **(3 Marks)**
	  6. Chemical Coordination and Integration **(3 Marks)**

CHEMISTRY	**Total Marks (70)**
	
	  1. Some Basic Concepts of Chemistry **(7 Marks)**
	  2. Structure of Atom **(9 Marks)**
	  3. Classification of Elements and Periodicity in Properties **(6 Marks)**
	  4. Chemical Bonding and Molecular Structure **(7 Marks)**
	  5. Chemical Thermodynamics **(9 Marks)**
	  6. Equilibrium **(7 Marks)**
	  7. Redox Reactions **(4 Marks)**
	  8. Organic Chemistry: Some basic Principles and Techniques **(11 Marks)**

	9. Hydrocarbons **(10 Marks)**
BUSINESS STUDIES	**Total Marks (80)** **Part A Foundations of Business [40 Marks]** 1. Nature and Purpose of Business }**(1& 2 - 16 Marks)** 2. Forms of Business Organisations 3. Public, Private and Global Enterprises }**(3 & 4 - 14 Marks)** 4. Business Services 5. Emerging Modes of Business } **(5 & 6 - 10 Marks)** 6. Social Responsibility of Business and Business Ethics **Part B Finance and Trade [40 Marks]** 7. Sources of Business Finance }**(7& 8 - 20 Marks)** 8. Small Business 9. Internal Trade } **(9& 10 - 20 Marks)** 10. International Business
PSYCHOLOGY	**Total Marks (70)** 1. What is Psychology? **(11 Marks)** 2. Methods of Enquiry in Psychology **(13 Marks)** 4. Human Development **(11 Marks)** 5. Sensory, Attentional and Perceptual Processes **(8 Marks)** 6. Learning **(9 Marks)** 7. Human Memory **(8 Marks)** 8. Thinking **(5 Marks)** 9. Motivation and Emotion **(5 Marks)**
ECONOMICS	**Total Marks (80)** **Part A Statistics for Economics** 1. Introduction } **(1& 2 - 34 Marks)** 2. Collection, Organisation and Presentation of Data 3. Statistical Tools and Interpretation **(6 Marks)** **Part B Introductory Microeconomics** 4. Introduction **(4 Marks)** 5. Consumer's Equilibrium and Demand **(14 Marks)** 6. Producer Behaviour and Supply **(14 Marks)**

	7. Forms of Market and Price Determination under perfect competition with simple applications. **(8 Marks)**
MARKETING	**Total Marks (60)** **PART A: Employability Skills (10 Marks)** **Unit 1: Communication Skills-III (2 Marks)** **Unit 2: Self-Management Skills-III (2 Marks)** **Unit 3 : ICT Skills-III (2 Marks)** **Unit 4: Entrepreneurial Skills-III (2 Marks)** **Unit 5: Green Skills-III (2 Marks)** **PART B:Subject Specific Skills (50 Marks)** **Unit 1: Introduction to Marketing (10 Marks)** **Unit 2: Marketing Environment (10 Marks)** **Unit 3: Marketing Segmentation, Targeting & Positioning (10 Marks)** **Unit 4: Fundamentals of Marketing Mix (10 Marks)** **Unit 5: Consumer Behaviour (10 Marks)**
INFORMATICS PRACTICES	**Total Marks (70)** **Unit 2: Introduction to Python Basics of Python programming (30 Marks)** ● execution modes: - interactive and script mode, the structure of a program, indentation, identifiers, keywords, constants, variables, types of operator, precedence of operators, data types, mutable and immutable data types, statements, expression evaluation. 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 Database Concepts: **(25 Marks)**

- Introduction to database concepts and their needs, Database Management System.
- Relational data model: Concept of the 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 DATABASE, CREATE TABLE, DROP, ALTER Data Query: SELECT, FROM, WHERE with relational operators, BETWEEN, logical operators, IS NULL, IS NOT NULL Data Manipulation: INSERT, DELETE, UPDATE .

Unit 4: Introduction to the Emerging Trends: **(15 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	**Total Marks (70)** **Unit 2: Computational Thinking and Programming - I** **(50 Marks)** ● Introduction to Problem-solving: Steps for Problem-solving (Analyzing the problem, developing an algorithm, coding, testing, and debugging), representation of algorithms using flowchart and pseudocode, decomposition ● Familiarization with the basics of Python programming: Introduction to Python, Features of Python, executing a simple "hello world" program, execution modes: interactive mode and script mode, Python character set, Python tokens(keyword, identifier, literal, operator, punctuator), variables, concept of l-value and r-value, use of comments ● 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.

● Errors- syntax errors, logical errors, and run-time errors

● Flow of Control: introduction, use of indentation, sequential flow, conditional and iterative flow

● 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, suggested programs: generating pattern, summation of series, finding the factorial of a positive number, etc.

● 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 and slicing), traversing a list using loops, built-in functions/methods–len(), list(), append(), extend(), insert(), count(), index(), remove(), pop(), reverse(), sort(), sorted(), min(), max(), sum(); nested lists, suggested programs: finding the maximum, minimum, mean of numeric values stored in a list; linear search on list of numbers and counting the frequency of elements in a list.

● Tuples: introduction, indexing, tuple operations (concatenation, repetition, membership and slicing); built-in functions/methods – len(), tuple(), count(), index(), sorted(), min(), max(), sum(); tuple assignment, nested tuple; suggested programs: finding the minimum, maximum, mean of values stored in a tuple; linear search on a tuple of numbers, counting the frequency of elements in a tuple.
● Dictionary: introduction, accessing items in a dictionary using keys, mutability of a dictionary (adding a new term, modifying an existing item), traversing a dictionary, built-in functions/methods – len(), dict(), keys(), values(), items(), get(), update(), del, clear(), fromkeys(), copy(), pop(), popitem(), setdefault(), max(), min(), sorted(); Suggested programs: count the number of times a character appears in a given string using a dictionary, create a dictionary with names of

	employees, their salary and access them. ● 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 3: Society, Law and Ethics (20 Marks)** ● Digital Footprints ● Digital Society and Netizen: net etiquettes, communication etiquettes, social media etiquettes ● Data Protection: Intellectual property rights (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, cyber trolls, cyber bullying ● Cyber safety: safely browsing the web, identity protection, confidentiality ● Malware: viruses, trojans, adware ● E-waste management: proper disposal of used electronic gadgets. ● Information Technology Act (IT Act) ● Technology and society: Gender and disability issues while teaching and using computers
ARTIFICIAL INTELLIGENCE	**Total Marks (50)** ● Python Programming : CSV Files, Libraries – Numpy, Pandas, Scikit-learn **(10 Marks)** ● Capstone Project : 5W1H method, design thinking methodology, Empathy Map , Sustainable Development Goals **(10 Marks)** ● Data Literacy : Data Collection , Exploring Data ,Statistical Analysis of data , Representation of data, Python programs to visualise the line graph, bar graph, histogram, scatter graph and pie chart using matplotlib , Data Pre-processing , Data in Modelling and Evaluation. **(10 Marks)** ● Machine Learning Algorithms : Types of Machine Learning, Understanding Correlation, Regression, Finding the line, Linear Regression algorithm , K– Nearest Neighbour algorithm, Clustering, K

	-means Clustering algorithm. **(10 Marks)** ● Leveraging Linguistics and Computer Science : Understanding Human Language Complexity, Emotion Detection and Sentiment Analysis, Classification Problems, Chatbot, Applications of NLP **(5 Marks)** ● AI Ethics and Values: Bias, Bias Awareness, Sources of Bias , Mitigating Bias in AI Systems , Developing AI Policies **(5 Marks)**
PHYSICAL EDUCATION	**Total Marks (70)** ● Changing Trends and Careers in Physical Education **(10 Marks)** ● Olympism Value Education **(10 Marks)** ● Yoga **(10 Marks)** ● Physical Education and Sports for CWSN **(10 Marks)** ● Physical Fitness, Wellness, and Lifestyle **(10 Marks)** ● Test, Measurement & Evaluation **(5 Marks)** ● Fundamentals of Anatomy, Physiology in Sports **(10 Marks)** ● Psychology and Sports **(5 Marks)**
ISLAMIC STUDIES	**Total Marks (50 Written - 40, Quran Recitation - 10)** ● **Emulating Allah's messenger** **(8 Marks)** ● **Financial contracts** **(8 Marks)** ● **Scientific miracles in the Holy Quran** **(8 Marks)** ● **Manners of dialogue** **(8 Marks)** ● **The-prohibited-degrees-of-female-relations** **(8 Marks)** ● **Recitation of Surah Ahzab (21-27 Ayat)** **(10 Marks)**
MSC	**Total Marks (30)** **Conflict Resolution (5 Marks)** **Self Reflection (5 Marks)** **Market Structure (10 Marks)** **Universal Culture (10 Marks)**