

Commission of Education (Meerut Diocese)

Director – Rev. Fr, K. V. George

TERM – 01 SYLLABUS (2024 – 25)

CLASS – XI

M. T. – 3 Hours

SUBJECT – ENGLISH CORE (301)

M.M – 80

Reading Skills –

- * Factual, Descriptive or Literary Passage for Reading Comprehension.
- * Case Based Passage for Reading Comprehension.

Grammar –

- *Tenses
- *Narration (Direct Indirect Speech)

Writing Skills –

- *Classified Advertisements
- * Poster Drafting
- *Speech Writing

Literature – *Hornbill

Prose –

1. The Portrait of a Lady
2. We're Not Afraid to Die. If We Can All Be Together
3. Discovering Tut: The Saga Continues

Poetry –

1. A Photograph
2. The Laburnum Top
3. The Voice of The Rain

***Snapshots –**

1. The Summer Of The Beautiful White Horse
2. The Address
3. Mother's Day

Question Paper Pattern

80 Marks

Section A -- Reading Skills

(26)

1. One Unseen Passage To Assess Comprehension, Interpretation, Analysis, Inference And Vocabulary. The Passage May Be Factual, Descriptive or Literary. (Multiple Choice Questions And Subjective Type Questions) **10 Marks**
2. One Unseen Case-Based Factual Passage with Verbal/Visual Inputs Like Statistical Data, Charts Etc. To Assess Comprehension, Interpretation, Analysis, Inference and Evaluation. Note: The Combined Word Limit for Both the Passages Will Be 600-750. (Multiple Choice Questions and Objective Type Questions) **8 Marks**
3. Note Making and Summarization Based on A Passage of Approximately 200-250 Words.
 - i. Note Making: **5 Marks**
 - ii. Summary (Up To 50 Words): **3 Marks**

Commission of Education (Meerut Diocese)

Director – Rev. Fr, K. V. George

Section B – Grammar And Creative Writing Skills

(23)

4. Editing, Omission, Gap-Filling Based On (Tenses And Narration) **5+5 = 10 Marks**
5. Re-Arrange Sentences **2 Marks**
6. Classified Advertisement **3 Marks**
7. Poster Drafting **3 Marks**
8. Speech Writing In 120-150 Words Based On Verbal / Visual Cues Related To Contemporary / Age-Appropriate Topic. **5 Marks**

Section – C Literature (Text Books)

(31)

9. One Poetry Extract Out of Two, From the Book Hornbill, To Assess Comprehension, Interpretation, Analysis, Inference and Appreciation. (Multiple Choice Questions and Objective Type Questions) **3x1=3 Marks**
 10. One Prose Extract Out of Two, From the Book Hornbill, To Assess Comprehension, Interpretation, Analysis, Evaluation and Appreciation. (Multiple Choice Questions And Objective Type Questions) **3x1=3 Marks**
 11. One Prose Extract Out of Two, From the Book Snapshots, To Assess Comprehension, Interpretation, Analysis, Inference and Appreciation. (Multiple Choice Questions and Objective Type Questions) **4x1=4 Marks**
 12. Two Short Answer Type Questions (One from Prose and One from Poetry, From The Book Hornbill), Out of Four, To Be Answered In 40-50 Words. Questions Should Elicit Inferential Responses Through Critical Thinking. **3x2=6 Marks**
 13. One Short Answer Type Question, From the Book Snapshots, To Be Answered In 40- 50 Words. Questions Should Elicit Inferential Responses Through Critical Thinking. One Out Of Two Questions to Be Done. **3 Marks**
 14. One Long Answer Type Question, From Prose/Poetry of Hornbill, To Be Answered In 120- 150 Words. Questions Can Be Based on Incident / Theme / Passage / Extract / Event, As Reference Points To Assess Extrapolation Beyond And Across The Text. The Question Will Elicit Analytical and Evaluative Response from The Student. Any One Out Of Two Questions to Be Done. **6 Marks**
 15. One Long Answer Type Question, Based on The Chapters from The Book Snapshots, To Be Answered In 120-150 Words, To Assess Global Comprehension and Extrapolation Beyond the Text. Questions To Provide Analytical and Evaluative Responses, Using Incidents, Events, Themes, As Reference Points. Any One Out Of Two Questions to Be Done. **6 Marks**
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Commission of Education (Meerut Diocese)

Director – Rev. Fr, K. V. George

TERM – 01 SYLLABUS (2024 – 25)

CLASS – XI

M. T. – 3 Hours

SUBJECT – PHYSICS (042)

M.M – 70

Unit I: Physical World and Measurement

Chapter–2: Units and Measurements

8 Marks

Need for measurement: Units of measurement; systems of units; SI units, fundamental and derived units. significant figures. Dimensions of physical quantities, dimensional analysis and its applications.

Unit II: Kinematics

Chapter–3: Motion in a Straight Line

8 Marks

Frame of reference, Motion in a straight line, Elementary concepts of differentiation and integration for describing motion, uniform and nonuniform motion, and instantaneous velocity, uniformly accelerated motion, velocity - time and position-time graphs. Relations for uniformly accelerated motion (graphical treatment).

Chapter–4: Motion in a Plane

8 Marks

Scalar and vector quantities; position and displacement vectors, general vectors and their notations; equality of vectors, multiplication of vectors by a real number; addition and subtraction of vectors, Unit vector; resolution of a vector in a plane, rectangular components, Scalar and Vector product of vectors. Motion in a plane, cases of uniform velocity and uniform acceleration projectile motion, uniform circular motion.

Unit III: Laws of Motion

Chapter–5: Laws of Motion

12 Marks

Intuitive concept of force, Inertia, Newton's first law of motion; momentum and Newton's second law of motion; impulse; Newton's third law of motion. Law of conservation of linear momentum and its applications. Equilibrium of concurrent forces, Static and kinetic friction, laws of friction, rolling friction, lubrication. Dynamics of uniform circular motion: Centripetal force, examples of circular motion (vehicle on a level circular road, vehicle on a banked road).

Unit IV: Work, Energy and Power

Chapter–6: Work, Energy and Power

12 Marks

Work done by a constant force and a variable force; kinetic energy, work energy theorem, power. Notion of potential energy, potential energy of a spring, conservative forces: non-conservative forces, motion in a vertical circle; elastic and inelastic collisions in one and two dimensions.

Commission of Education (Meerut Diocese)

Director – Rev. Fr. K. V. George

Unit V: Motion of System of Particles and Rigid Body

Chapter–7: System of Particles and Rotational Motion

10 Marks

Centre of mass of a two-particle system, momentum conservation and Centre of mass motion. Centre of mass of a rigid body; centre of mass of a uniform rod. Moment of a force, torque, angular momentum, law of conservation of angular momentum and its applications.

Equilibrium of rigid bodies, rigid body rotation and equations of rotational motion, comparison of linear and rotational motions. Moment of inertia, radius of gyration, values of moments of inertia for simple geometrical objects (no derivation).

Unit VI: Gravitation

Chapter–8: Gravitation

12 Marks

Kepler's laws of planetary motion, universal law of gravitation. Acceleration due to gravity and its variation with altitude and depth. Gravitational potential energy and gravitational potential, escape speed, orbital velocity of a satellite.

TERM – 01 SYLLABUS (2024 – 25)

CLASS – XI

M. T. – 3 Hours

SUBJECT – CHEMISTRY (043)

M.M – 70

Unit-1. Some Basic Concept of Chemistry	13 MARKS
Unit-2. Structure of an Atom	18 MARKS
Unit-3. Classification of Elements and periodicity in properties	10 MARKS
Unit-4. Chemical Bonding, molecular Structure	15 MARKS
Unit-6. Chemical Thermodynamics	14 MARKS

Commission of Education (Meerut Diocese)

Director – Rev. Fr, K. V. George

TERM – 01 SYLLABUS (2024 – 25)

CLASS – XI

M. T. – 3 Hours

SUBJECT – BIOLOGY (044)

M.M – 70

Unit-I Diversity of Living Organisms

20 MARKS

Chapter-1: The Living World

3 MARKS

Biodiversity; Need for classification; three domains of life; taxonomy and systematics; concept of species and taxonomical hierarchy; binomial nomenclature

Chapter-2: Biological Classification

7 MARKS

Five kingdom classification; Salient features and classification of Monera, Protista and Fungi into major groups; Lichens, Viruses and Viroids.

Chapter-3: Plant Kingdom

5 MARKS

Classification of plants into major groups; Salient and distinguishing features and a few examples of Algae, Bryophyta, Pteridophyta, Gymnospermae (Topics excluded – Angiosperms, Plant Life Cycle and Alternation of Generations)

Chapter-4: Animal Kingdom

5 MARKS

Salient features and classification of animals, non-chordates up to phyla level and chordates upto class level (salient features and at a few examples of each category). (No live animals or specimen should be displayed.)

Unit-II Structural Organization in Plants and Animals

20 MARKS

Chapter-5: Morphology of Flowering Plants

7 MARKS

Morphology of different parts of flowering plants: root, stem, leaf, inflorescence, flower, fruit and seed. Description of family Solanaceae

Chapter-6: Anatomy of Flowering Plants

6 MARKS

Anatomy and functions of tissue systems in dicots and monocots.

Chapter-7: Structural Organisation in Animals

7 MARKS

Morphology, Anatomy and functions of different systems (digestive, circulatory, respiratory, nervous and reproductive) of frog.

Unit-III Cell: Structure and Function

30 MARKS

Chapter-8: Cell-The Unit of Life

11 MARKS

Cell theory and cell as the basic unit of life, structure of prokaryotic and eukaryotic cells; Plant cell and animal cell; cell envelope; cell membrane, cell wall; cell organelles - structure and function; endomembrane system, endoplasmic reticulum, golgi bodies,

Commission of Education (Meerut Diocese)

Director – Rev. Fr. K. V. George

lysosomes, vacuoles, mitochondria, ribosomes, plastids, microbodies; cytoskeleton, cilia, flagella, centrioles (ultrastructure and function); nucleus.

Chapter-9: Biomolecules

11 MARKS

Chemical constituents of living cells: biomolecules, structure and function of proteins, carbohydrates, lipids, and nucleic acids; Enzyme - types, properties, enzyme action. (Topics excluded: Nature of Bond Linking Monomers in a Polymer, Dynamic State of Body Constituents Concept of Metabolism, Metabolic Basis of Living, The Living State)

Chapter-10: Cell Cycle and Cell Division

8 MARKS

Cell cycle, mitosis, meiosis and their significance

TERM – 01 SYLLABUS (2024 – 25)

CLASS – XI

M. T. – 3 Hours

SUBJECT – MATHEMATICS (041)

M.M – 80

Unit-I: Sets and Functions

28 Marks

1. Sets

8 Marks

Sets and their representations, Empty set, Finite and Infinite sets, Equal sets, Subsets, Subsets of a set of real numbers especially intervals (with notations). Universal set. Venn diagrams. Union and Intersection of sets. Difference of sets. Complement of a set. Properties of Complement.

2. Relations & Functions

8 Marks

Ordered pairs. Cartesian product of sets. Number of elements in the Cartesian product of two finite sets. Cartesian product of the set of reals with itself (up to $R \times R \times R$). Definition of relation, pictorial diagrams, domain, co-domain and range of a relation. Function as a special type of relation. Pictorial representation of a function, domain, co-domain and range of a function. Real valued functions, domain and range of these functions, constant, identity, polynomial, rational, modulus, signum, exponential, logarithmic and greatest integer functions, with their graphs. Sum, difference, product and quotients of functions.

3. Trigonometric Functions

12 Marks

Positive and negative angles. Measuring angles in radians and in degrees and conversion from one measure to another. Definition of trigonometric functions with the help of unit circle. Truth of the identity $\sin^2 x + \cos^2 x = 1$, for all x . Signs of trigonometric functions. Domain and range of trigonometric functions and their graphs. Expressing $\sin(x \pm y)$ and $\cos(x \pm y)$ in terms of $\sin x$, $\sin y$, $\cos x$ & $\cos y$ and their simple applications.

Commission of Education (Meerut Diocese)

Director – Rev. Fr. K. V. George

Deducing identities of the following: $\tan(x \pm y)$ $\cot(x \pm y)$, $(\sin \alpha \pm \sin \beta)$, $(\cos \alpha \pm \cos \beta)$ Identities related to $\sin 2x$, $\cos 2x$, $\tan 2x$, $\sin 3x$, $\cos 3x$ and $\tan 3x$.

Unit-II: Algebra

40 Marks

1. Complex Numbers and Quadratic Equations

8 Marks

Need for complex numbers, especially $\sqrt{-1}$, to be motivated by inability to solve some of the quadratic equations. Algebraic properties of complex numbers. Argand plane

2. Linear inequalities.

10 Marks

Algebraic solutions of linear inequalities in one variable and their representation on the number line.

3. Permutations and Combinations

11 Marks

Fundamental principle of counting. Factorial n . $(n!)$ Permutations and combinations, derivation of formulae for ${}^n P_r$ and ${}^n C_r$ and their connections, simple applications.

4. Sequence and Series

11 Marks

Sequence and Series. Arithmetic Mean (A.M.) Geometric Progression (G.P.), general term of a G.P., sum of n terms of a G.P., infinite G.P. and its sum, geometric mean (G.M.), relation between A.M. and G.M.

Unit-IV: Calculus

12 Marks

1. Limits and Derivatives

Derivative introduced as rate of change both as that of distance function and geometrically. Intuitive idea of limit. Limits of polynomials and rational functions trigonometric, exponential and logarithmic functions. Definition of derivative relate it to slope of tangent of the curve, derivative of sum, difference, product and quotient of functions. Derivatives of polynomial and trigonometric functions.

TERM – 01 SYLLABUS (2024 – 25)

CLASS – XI

M. T. – 3 Hours

SUBJECT – APPLIED MATHEMATICS (241)

M.M – 80

CHAPTER

MARKS

1. BINARY NUMBERS

(3)

2. INDICES, LOGARITHM AND ANTILOGARITHM.

(4)

3. LAWS AND PROPERTIES OF LOGARITHMS.

(5)

4. SIMPLE APPLICATIONS OF LOGARITHM AND ANTILOGARITHM.

(4)

5. AVERAGES, CLOCK & CALENDAR.

(8)

6. TIME, WORK AND DISTANCE.

(7)

Commission of Education (Meerut Diocese)

Director – Rev. Fr, K. V. George

7. MENSURATIONS.	(9)
8. SEATING ARRANGEMENT	(4)
9. SETS	(8)
10. RELATIONS	(5)
11. SEQUENCES AND SERIES	(12)
12. PERMUTATIONS AND COMBINATIONS	(11)

TERM – 01 SYLLABUS (2024 – 25)

CLASS – XI

M. T. – 3 Hours **SUBJECT – PHYSICAL EDUCATION (048)** **M.M – 70**

Unit 1: Changing Trends and Careers in Physical Education	18 MARKS
Unit 2: Olympism	10 MARKS
Unit 3: Yoga	18 MARKS
Unit 4: Physical Education and Sports for Children for special needs (Divyang)	10 MARKS
Unit 5: Physical Fitness, Health and wellness	14 MARKS

TERM – 01 SYLLABUS (2024 – 25)

CLASS – XI

M. T. – 3 Hours **SUBJECT – ACCOUNTANY (055)** **M.M – 80**

Chapter 1: - Introduction to Accounting (Meaning Objectives, Roles and Basic Terms in Accounting)	8 MARKS
Chapter 2: - Theory Base of Accounting (Concepts and Principles of Accounting and Basis of Accounting)	10 MARKS
Chapter 3: - Recording of Transactions –I (Accounting Equation, Journal and Ledger Including GST Transactions but excluding GST Adjustments)	18 MARKS
Chapter 4: - Recording of Transactions –II (Cash Book: Single Column and Double Column Cash Book, Petty Cash Book, Purchases Book, Purchases Return Book, Sales Book, Sales Return Book, Journal Proper)	16 MARKS

Commission of Education (Meerut Diocese)

Director – Rev. Fr, K. V. George

Chapter 5: - Bank Reconciliation Statement

12 MARKS

Chapter6: - Trial Balance and Rectification of Errors

16 MARKS

TERM – 01 SYLLABUS (2024 – 25)

CLASS – XI

M. T. – 3 Hours

SUBJECT – ECONOMICS (030)

M.M – 80

Part-A (Statistics)

40 MARKS

Unit-1 Introduction

Unit-2- Collection Organisation and Presentation of Data

Part-B (Introductory Microeconomics)

40 MARKS

Unit-4- Introduction

10 MARKS

Unit-5- Consumer's Equilibrium and demand

30 MARKS

TERM – 01 SYLLABUS (2024 – 25)

CLASS – XI

M. T. – 3 Hours

SUBJECT – BUSINESS STUDIES (054)

M.M – 80

Part A: - Foundations of Business

1. Nature and Purpose of Business. 12 MARKS
2. Forms of Business organisations 20 MARKS
3. Public Private and Global Enterprises 10 MARKS
4. Business Services 15 MARKS
5. Emerging Modes of Business 08 MARKS
6. Social Responsibility of Business and Business Ethics 15 MARKS

Commission of Education (Meerut Diocese)

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TERM – 01 SYLLABUS (2024 – 25)

CLASS – XI

M. T. – 3 Hours

SUBJECT – COMPUTER SCIENCE (083)

M.M – 70

CH-1	COMPUTER SYSTEM OVERVIEW	07 MARKS
CH-2	DATA REPRESENTATION	08 MARKS
CH-3	GETTING STARTED WITH PYTHON	05 MARKS
CH-4	PYTHON FUNDAMENTAL	10 MARKS
CH-5	DATA HANDLING	10 MARKS
CH-6	FLOW OF CONTROL	15 MARKS
CH-7	STRING	15 MARKS
