

MOUNT CARMEL PU COLLEGE
I PU – SCIENCE
PORTIONS FOR MIDTERM EXAMINATION OCTOBER 2026 - 2027

PHYSICS [33]

1. Units and measurements
2. Motion in a straight line
3. Motion in a plane
4. Laws of motion
5. Work, Energy and power.
6. System of particles and Rotational motion
7. Gravitation
8. Mechanical properties of solids
9. Mechanical properties of fluids (till Bernoulli's principle)

CHEMISTRY [34]

- Unit 1 Some basic concepts in chemistry
Unit 2 Structure of atom
Unit 3 Classification of elements and periodicity in properties
Unit 4 Chemical bonding and molecular structure upto VSEPR theory
Unit 8 Organic chemistry some basic principles and techniques

MATHEMATICS [35]

1. Sets
2. Relations and Functions
3. Trigonometric Functions
4. Complex numbers and Quadratic Equations (Exe. 4.1)
5. Linear Inequalities
6. Straight Lines
7. Permutation & Combination
8. Binomial theorem (Pascals triangle)

BIOLOGY [36]

Unit I

1. The Living World
2. Biological Classification
3. Plant Kingdom
4. Animal Kingdom

Unit II

5. Morphology of Flowering plants
6. Anatomy of Flowering Plants
7. Structural Organization in Animals

Unit III

8. Cell: The Unit of Life
9. Biomolecules


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ELECTRONICS [40]

Chapter - 1 - Introduction to Electronics

Chapter - 2 - Principles of Electronics

Chapter - 4 - Passive Components - Resistors, Capacitors, Inductors, Transformers & Transducers - Pressure Transducer - Microphone & Loud Speaker.

Chapter - 5 - Application of dc & ac to Passive Components upto ac applied to an inductor

Chapter - 8 - Digital Electronics upto De 'Morgan's Theorem & simplification of Boolean expression.

COMPUTER SCIENCE [41]

Chapter 1 - Computer System

Chapter 4 - Introduction to Problem Solving

Chapter 5 - Getting started With Python

Chapter 6 - Flow of Control

Chapter 7 - Functions

STATISTICS [31]

Chapter 1. Introduction to Statistics and some basic concepts.

Chapter 2. Organisation of data

Chapter 3. Classification and tabulation of data

Chapter 4. Diagrammatic and graphical representation of data

Chapter 5. Analysis of univariate data.

Chapter 6. Analysis of Bivariate data (Correlation)

HOME SCIENCE [67]

Chapter – 1 – Introduction - HEFS: Evolution of the Discipline and Its Relevance to Quality of Life.

Unit 1 - Understanding Oneself: Adolescence

Chapter – 2 – Understanding Oneself: Adolescence

A] What makes me 'I'

B] Development and Characteristics of the self

C] Influences on Identity

How do we develop a sense of self?

Chapter – 3 – Food, Nutrition, Health and Fitness

Chapter – 4 – Management of Resources

Chapter – 5 – Fabrics around Us

Chapter – 6 – Media and Communication Technology

Unit 2 - Understanding Family, Community and Society

Chapter – 7- Concerns and Needs in diverse Contexts

A] Nutrition, Health and Hygiene

B] Resource Availability and Management

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