

**MOUNT CARMEL PU COLLEGE**  
**SYLLABUS FOR MID TERM EXAM 2024**

**STATISTICS (31)**

Chapters:

- 1 – Vital Statistics
- 2 - Index Numbers.
- 3 - Time Series Analysis.
- 4 - Interpolation and Extrapolation.
- 5 - Theoretical Distributions

**PHYSICS (33)**

Chapters :

1. Electric Charges and Fields.
2. Electric potential and capacitance.
3. Current electricity.
4. Moving charges and Magnetism.
5. Magnetism and Matter.
6. Electromagnetic Induction
7. Alternating Current.
8. Electromagnetic Waves.

**CHEMISTRY (34)**

Chapters:

1. Solutions.
- 2.d and f - block elements.
- 3.Co-ordination compounds
- 4.Electrochemistry
5. Halo alkanes and Haloarenes
6. Alcohols, Phenols and Ethers

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## **MATHEMATICS (35)**

Chapters :

1. Relations and Functions.
2. Inverse trigonometric functions.
3. Matrices.
4. Determinants.
5. Continuity and Differentiability.
6. Applications of Derivatives.
7. Vectors Algebra.
8. Three Dimensional Geometry (only lines)
9. Linear Programming Problem.

## **BIOLOGY (36)**

Chapters:

1. Sexual reproduction in flowering plants.
2. Human reproduction.
3. Reproductive Health.
4. Principles of Inheritance & Variation.
5. Molecular basis of Inheritance,
6. Evolution
7. Human Health & Diseases (Upto Immence System in the body 7.2.7)

## **ELECTRONICS (40)**

Chapters :

1. Field Effect Transistor (FET).
2. Bipolar Junction Transistor (BJT) Biasing.
3. Transistor Amplifiers.
4. Feedback in Amplifiers.
5. Operational Amplifiers (Op-Amp).
6. 10. Digital Electronics.

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## **COMPUTER SCIENCE (41)**

Chapters :

1. Typical Configuration.
2. Boolean Algebra.
3. Logic Gates.
4. Data Structures .
5. \*Review of C++\*.
6. OOP Concepts
7. Classes and objects.
8. Function Overloading.
9. Constructions and Destructors.

## **HOME SCIENCE (67)**

Chapters :

1. Savings.
2. Fundamentals of Interior Decoration.
3. Consumer Education.
4. Meal planning.
5. Food Storage.
6. Community Nutrition.
7. Childhood years.
8. Adolescence.
9. Adulthood.

## **ENGLISH (02)**

CHAPTERS:

1. Romeo and Juliet,
2. Too Dear!,
3. On Children,
4. Everything I Need To Know I Learned In The Forest.

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5. A Sunny Morning,
6. When You Are Old
7. The Gardener
8. To the foot from its child.

**Workbook –**

1. Comprehension passage
2. Pronouns
3. Passive voice
4. Dialogue writing
5. Reported speech
6. Expressions
7. Idioms
8. Letter writing
9. Note making
10. Report writing.

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