

**MOUNT CARMEL PU COLLEGE**  
**BENGALURU – 560 046**  
**I PUC – SCIENCE**  
**PORTIONS FOR SECOND COMPULSORY TEST**  
**DECEMBER 2023-2024**

**PHYSICS [33]**

- Chapter – 8 - Mechanical properties of Solids
- Chapter – 9 - Mechanical properties of Fluids
- Chapter – 10 - Thermal properties of Matter
- Chapter – 11 - Thermodynamics.

**CHEMISTRY [34]**

- Units – 6 - Chemical Equilibrium
- Units – 8 – Hydrocarbons
- Units – 9 - Redox Reactions

**MATHEMATICS [35]**

- Chapter – 9- Limits and Derivatives
- Chapter – 10 - Permutations and Combinations
- Chapter – 11 - Binomial Theorem
- Chapter – 12 - Sequences and series
- Chapter – 13 - Introduction to 3-Dimensional Geometry

**BIOLOGY [36]**

**Chapters - Unit IV**

- 11. Photosynthesis in Higher Plants
- 12. Respiration in Plants
- 13. Plant Growth and Development

**Chapter - Unit V**

- 14. Breathing & Exchange of gases.

**ELECTRONICS [40]**

- Chapter - 4B - Passive Electronic Components, Inductors, Transformers  
Transducers
- Chapter - 6B - Semiconductors, Diodes and Applications of Diodes:  
Filters, Zener Diode, Voltage Regulators Design of  
Practical regulated power supplies, Special Diodes, LED,  
Seven Segment Display
- Chapter - 8A- Introduction to Digital Electronics: Introduction, Number  
System, Boolean Algebra

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**COMPUTER SCIENCE [41]**

- Chapter – 8 - Data types
- Chapter – 9 - Input and Output operators
- Chapter – 10 - Control Statements
- Chapter – 11- Arrays
- Chapter – 12 – Functions
- Chapter – 13 - User Defined functions
- Chapter – 14 - Structures

**HOMESCIENCE [67]**

- Chapter – 10 - Infancy
- Chapter – 11 - Introduction to textile Fibres
- Chapter – 12 - Fabric Construction
- Chapter – 13. Care of Clothing.

**STATISTICS [31]**

- Chapter - 6 - Analysis of Bivariate data
- Chapter - 7 - Association of Attributes.
- Chapter - 8 - Interpolation and Extrapolation.

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