



# P-ACT

## Presidency Admission Competency Test - Syllabus (AY 2025-26) (Stream: Medical - PCMB)

### 01. PHYSICS:-

- i. **Mechanics:-**  
Horizontal motion  
Work Done  
Force  
Law of Conservation of Energy
- ii. **Light:-**  
Shell's law - Refraction at plane surface, Prism applications  
Refraction of light by lens
- iii. **Current Electricity:-**  
Ohm's law - Combination of resistors  
Heating effect of current  
Magnetic effects of Current - Field due to current carrying conductors  
Advantages of AC over DC.

### 02. CHEMISTRY:-

- i. Acids, Bases and Salts
- ii. Carbon Compounds and Organic Chemistry
- iii. Chemical Reactions
- iv. Mole Concept and Reactions

### 03. MATHEMATICS:-

- i. Quadratic Equations
- ii. Statistics and Probability
- iii. Sequence and series
- iv. Co-ordinate Geometry
- v. Trigonometry

### 04. BIOLOGY:-

- i. Basic Biology,
- ii. Flowering Plants,
- iii. Biomolecules
- iv. Cell Structure
- v. Cell division
- vi. Plant physiology (Basics Only), Photosynthesis, Respiration in plants, Plant Growth & Development
- vii. Animal Physiology (Basics only),  
Breathing and exchange of gases, Body fluids and circulation. Neural control and coordination, Chemical coordination.