

PM-AITS-01 Examination

- **Date: October 12, 2025**
- **Time: 3 hrs**
- **Full Marks - 720**
- **Repeaters Batch 2026**

Subject

Syllabus

Physics:

Unit and Measurement, Motion in 1D, Vectors, Motion in Plan, Laws of Motion, Work- Power-Energy, Gravitation, System of particle and rotational motion, Electric Charges and field, Electric potential and capacitors, Current electricity, Magnetic effect of current.

Chemistry:

Basic Concepts of Chemistry, Structure of Atoms, Periodic Properties and Classification of Elements, Chemical Bonding and Molecular Structure, Thermodynamics, Chemical Equilibrium, Redox Reactions, General Organic Chemistry (except Methods of Purification)

Botany:

The living world, Biological Classifications, Sexual reproduction in Flowering Plants, Principles of Inheritance and Variation, Molecular Basis of Inheritance

Zoology:

Animal Kingdom, Structural Organization in Animals, Human Reproduction, Reproductive Health, Evolution, Human Health and Disease (except - Cancer, A.I.D.S and Drugs)



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PM-AITS-01 Examination

- **Date: October 12, 2025**
- **Time: 3 hrs**
- **Full Marks - 720**
- **Class 12 (Freshers) Batch 2026**

Subject

Syllabus

Physics:

Unit and Measurement, Motion in 1D, Vectors, Motion in Plan, Laws of Motion, Work- Power-Energy, Gravitation, System of particle and rotational motion, Electric Charges and field, Electric potential and capacitors, Current electricity, Magnetic effect of current, Magnetism and matter, Ray optics and optical instruments, wave optics.

Chemistry:

Structure of Atoms, Periodic Properties and Classification of Elements, Chemical Bonding and Molecular Structure, General Organic Chemistry, Solutions, Electrochemistry, Haloalkanes Haloarenes, Alcohols, Phenols, Ethers, Aldehydes and Ketones

Botany:

The living world, Biological Classifications, Plant Kingdom Morphology of Flowering Plants, Sexual reproduction in Flowering Plants, Principles of Inheritance and Variation, Molecular Basis of Inheritance

Zoology:

Animal Kingdom, Structural Organization in Animals, Biomolecules, Human Reproduction, Reproductive Health, Evolution



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PM-AITS-01 Examination

- **Date: October 12, 2025**
- **Time: 3 hrs**
- **Full Marks - 720**
- **Class 11 Batch 2027**

Subject

Syllabus

Physics:

Unit and Measurement, Motion in 1D, Vectors, Motion in Plan, Laws of Motion, Work-Power-Energy, Mechanical properties of solid, Mechanical properties of fluid

Chemistry:

Basic Concepts of Chemistry, Structure of Atoms, Periodic Properties and Classification of Elements, Chemical Bonding and Molecular Structure, Thermodynamics, Redox Reactions

Botany:

The living world, Biological Classifications, Morphology of Flowering Plants

Zoology:

Animal Kingdom, Body Fluids and Circulation, Excretory System



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