

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, Mechanical properties of solid, System of particle and rotational motion, Electric Charges and field, Electric potential and capacitors, Current electricity, Magnetic effect of current, Magnetism and matter

Chemistry:

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

Botany:

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

Zoology:

Animal Kingdom, Structural Organization in Animals, Human Reproduction, Reproductive Health, Evolution, Human Health and Disease, Microbes in Human Welfare



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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, Mechanical properties of solid, 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, dual nature of matter and radiation

Chemistry:

Basic Concepts of Chemistry, Structure of Atoms, Periodic Properties and Classification of Elements, Chemical Bonding and Molecular Structure, General Organic Chemistry, Hydrocarbon, Solutions, Electrochemistry, Chemical Kinetics, Alcohols, Phenols, Ethers, Aldehydes Ketones and Carboxylic acids, p-Block Elements

Botany:

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

Zoology:

Animal Kingdom, Structural Organization in Animals, Biomolecules, Body Fluids and Circulation, Human Reproduction, Reproductive Health, Evolution, Human Health and Disease, Microbes in Human Welfare.



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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, Gravitation, 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, Anatomy of Flowering Plants, Photosynthesis, Respiration in Plants

Zoology:

Animal Kingdom, Structural Organization in Animals, Biomolecules, Body Fluids and Circulation, Excretory System



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