

Assam Pollution Control Board Exam Pattern

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Serial Number	Subjects	Exam Type	Number Of Questions, Maximum Marks, Time Duration
1	Reasoning	Objective Type	Informed in the Exam Question Paper
2	Aptitude		
3	English		
4	Technical Subjects		

PCB Assam Syllabus - Topic Wise

Reasoning

- Puzzles
- Data Sufficiency
- Logical Problems
- Matching Definitions
- Cause and Effect
- Verbal Reasoning
- Logical Deduction
- Letter and Symbol Series
- Data Interpretation
- Logical Reasoning
- Analogies
- Making Judgement
- Number Series
- Statement and Conclusion
- Theme Detection
- Essential Part.
- Verbal Classification
- Artificial Language
- Statement and Argument
- Analytical Reasoning
- Non-Verbal Reasoning

Aptitude

- Ratio and Proportion
- Simplification
- Data Interpretation
- Discounts
- Pipes and Cisterns

- Average
- Simple & Compound Interest
- H.C.F. and L.C.M
- Mensuration
- Number Systems
- Mixture and Allegation
- Boats and Streams
- Problems on Ages
- Time and Work
- Profit and Loss
- Percentages
- Time and Distance

English

- Substitution
- Transformation
- Para Completion
- Fill in the blanks
- Antonyms
- Joining Sentences
- Error Correction (Phrase in Bold)
- Prepositions
- Spelling Test
- Passage Completion
- Sentence Improvement
- Sentence Completion
- Sentence Arrangement
- Spotting Errors
- Idioms and Phrases
- Active and Passive Voice
- Synonyms

Technical Subjects

Civil

- Environmental Engineering
- Hydrology and Water Resources Engineering
- Hydraulic Machines and Hydropower
- Solid Mechanics
- Building Materials
- Fluid Mechanics, Open Channel Flow, Pipe Flow
- Construction Practice
- Planning and Management
- A flow of Fluids, Hydraulic Machines, and Hydro Power

- Water Supply Engineering
- Design of Steel Structures
- Design of Concrete and Masonry structures
- Waste Water Engineering
- Structural Analysis
- Harbors
- Solid Waste Management
- Highways
- Geotechnical Engineering and Foundation Engineering
- Surveying and Geology
- Air, Noise pollution, and Ecology
- Airports
- Transportation Engineering
- Tunneling
- Railways Systems

Mechanical

- Applied Mechanics and Design.
- Theory of Machines.
- Machining and Machine Tool Operations etc.
- Fluid Mechanics and Thermal Sciences.
- Engineering Mechanics.
- Thermodynamics.
- Engineering Materials.
- Heat-Transfer.
- Materials, Manufacturing, and Industrial Engineering.
- Machine Design.
- Mechanics of Materials.
- Casting, Forming, and Joining Processes.
- Vibrations.

Electronics

- Analog Electronics
- Digital Electronics
- Control Systems and Process Control
- Transducers, Mechanical Measurement and Industrial Instrumentation
- Signals, Systems, and Communications
- Electrical and Electronic Measurements

Electrical

- Control Systems.
- Power System Protection.
- Network Analysis.

- Electrical Machines.
- Electromagnetic Theory.
- Electronics Devices.
- Power Electronics & Drives.
- Switch Gear and Protection etc.
- The Power System Analysis & Control.
- Analog and Digital Electronics.
- Power Systems.
- Utilization of Electrical Energy.
- Electrical Instrumentation

Chemistry

- Aufbau principle
- Fundamental particles of an atom (electron, proton, neutron)
- Rutherford's nuclear model
- Ideal & Non-ideal solutions
- Modern periodic table
- Types of solutions (Gas solutions, Liquid solutions, Solid solutions)
- Colligative properties of solutions
- Raoult's law
- Quantum Nos.
- Pauli's exclusion principle
- Variation in atomic properties (Size, ionization potential, Electron affinity, Electronegativity)
- Types of orbital (s, p, d, f), the shape of the orbital
- Solute, Solvent, Solution
- The concentration of solutions (Molarity, Normality, Formality, Molality, Mole fraction, Weight percent)

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