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## NTPC ACT 2026

### SYLLABUS AND PAPER PATTERN

**NTPC ACT 2026**

**SYLLABUS**

**PAPER PATTERN**

COMPLETE SYLLABUS | DETAILED PAPER PATTERN | PREPARE SMARTER | GOVT. PSU OPPORTUNITY

Chiral Academy

एनटीपीसी NTPC  
A Maharatna Company

**NTPC ASSISTANT CHEMIST TRAINEE EXAM PATTERN 2026**

LATEST EXAM PATTERN

**EXAM HIGHLIGHTS**

- Total Questions: 120
- Total Marks: 120
- Duration: 2 Hours
- Computer-Based Test
- Objective Type Questions
- Negative Marking Applicable

**COMPLETE COURSE**

**₹3500 ONLY**

- Complete Syllabus Coverage
- Live + Recorded Classes
- PDF Notes Included
- Doubt Support
- Mock Tests Included

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**NTPC ACT 2026 EXAM STRUCTURE**

Part	Subject	Questions
Part A	Aptitude	50
Part B	Technical (Chemistry)	70
Total		120

CALL / WHATSAPP: **9354609677**

**INDICATIVE SYLLABUS: Asst. Chemist Trainee (ACT)**

**PART A (APTITUDE) (50 Questions)**

This part will consist of 50 objective type questions on:

1. Verbal Ability/General English
2. Quantitative Aptitude
3. Reasoning Ability

**PART B (TECHNICAL) (70 Questions)**

**A. Physical Chemistry (25)**

Atomic Structure  
States of Matter  
Chemical Thermodynamics  
Chemical and Ionic Equilibrium  
Redox Reactions  
Phase Equilibria & Solutions  
Electrochemistry  
Chemical Kinetics  
Surface Chemistry  
Nuclear Chemistry

**B. Organic Chemistry (20)**

Basic Concepts in Organic Chemistry and Stereochemistry  
Qualitative and Quantitative Analysis and Purification of Organic Compounds  
Preparation, Properties and Reactions of Alkanes, Alkenes, Alkynes  
Organic Compounds with Functional Group Containing Halogens  
Organic Compounds with Functional Group Containing Oxygen  
Organic Compounds with Functional Group Containing Nitrogen  
Reactions of  $\alpha$ ,  $\beta$  Unsaturated Carbonyl and Acids  
Polymers  
Reactions of Benzene and Heterocyclic Compounds  
Urea and Malonic Ester  
Spectroscopy Measurements Including IR, UV, NMR (Proton and Carbon 13)  
Biomolecules – Carbohydrates, Protein, Vitamins, Nucleic Acid, Lipids, Hormones  
Environmental Chemistry  
Chemistry in Everyday Life

**C. Inorganic Chemistry (25)**

Mole Concept and Stoichiometry  
Periodic Table  
Chemical Bonding  
Main Group Elements (S & P)  
Transition Elements and Lanthanides  
Coordination Compound  
Metallurgy Including Ellingham Diagram (Basic)  
Analytical Chemistry  
B-Inorganic Chemistry