

Dr. Richa Paliwal

# CSIR NET Chemistry — Complete Preparation Guide

Syllabus Breakdown · Study Strategy · Important Topics · Exam Tips

## About CSIR NET Chemistry

CSIR NET (National Eligibility Test) is conducted by NTA for awarding Junior Research Fellowship (JRF) and Lecturer eligibility in Chemical Sciences. It is one of the most competitive exams in India for science graduates. This guide by Dr. Richa Paliwal — herself a Chemistry educator with deep expertise in this exam — gives you a clear roadmap to qualify.

## Exam Pattern at a Glance

Section	Topics	Questions	Marks
Part A	General Aptitude (Maths, Reasoning)	20 (attempt 15)	30
Part B	Core Chemistry Concepts (MCQ)	40 (attempt 35)	70
Part C	Advanced / Analytical Problems	60 (attempt 25)	100
Total	—	—	200

## Key Topics — What to Focus On

Domain	Important Topics
Inorganic Chemistry	Periodic trends, Coordination chemistry, Lanthanides, Transition metals
Organic Chemistry	Reaction mechanisms, Stereochemistry, Named reactions, Spectroscopy
Physical Chemistry	Thermodynamics, Kinetics, Quantum chemistry, Electrochemistry
Analytical Chemistry	Chromatography, Spectroscopy (IR, NMR, MS), Titrations
Part A (Aptitude)	Series, Data interpretation, Basic maths, Logical reasoning

## Month-wise Preparation Plan (6 Months)

Month	Focus
Month 1	Inorganic Chemistry fundamentals + Part A practice
Month 2	Organic Chemistry — mechanisms and named reactions
Month 3	Physical Chemistry — thermodynamics and kinetics
Month 4	Analytical Chemistry + Spectroscopy interpretation
Month 5	Full revision of all topics + past paper solving
Month 6	Mock tests, weak area targeting, and final revision

## Expert Tips from Dr. Richa Paliwal

- Part C carries the highest marks — master problem-solving, not just theory.
- Previous year papers (last 10 years) are the best practice material available.
- Negative marking applies — attempt only when you are 70%+ confident.
- Part A can be a game-changer — do not ignore it; practice regularly.
- Join Dr. Paliwal's CSIR NET coaching for structured, personalized preparation.

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