

# National Testing Agency (NTA)



## CSIR UGC Syllabus For PART A

### Reasoning

- Analogies
- Directions
- Coding-Decoding
- Classification
- Alphabet Series
- Analytical Reasoning
- Syllogisms
- Number Series
- Blood Relationships
- Arrangements
- Statements
- Symbols and Notations
- Similarities and Differences
- Visual Ability
- Graphical Analysis
- Data Sufficiency
- Non-verbal Reasoning
- Data Analysis

### Quantitative Aptitude

- Permutation & Combination
- Average
- Simple & Compound Interest
- Time & Speed
- Simplifications
- Number System
- HCF, LCM Problems
- Algebra

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- Percentage
- Time & Work
- Bar Graph, Pictorial Graph, Pie Chart
- Ratio & Proportion
- Area
- Profit & Loss

## Data Interpretation & Graphical Analysis

- Mean
- Median
- Graphical Analysis: Bar Graph, Line Graph, Pie-Chart and Tabulation
- Mode
- Measures of Dispersion

## CSIR NET Syllabus for Part B & C

### Earth Sciences

#### Part B

- The Earth and the Solar System
- Interior of the Earth
- Deformation and Tectonics
- Earth Materials
- Surface Features and Processes
- Oceans and Atmosphere
- Environmental Earth Sciences

#### Part C

- **Geology:**
- Mineralogy and Petrology
- Structural Geology and Geotectonics
- Marine Geology and Paleocyanography
- Paleontology and its Applications

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- Sedimentology and Stratigraphy
- Geochemistry
- Quaternary Geology
- Applied Geology
- Physical Geography
- Economic Geology
- Precambrian Geology and Crustal Evolution
- <https://exams.freshersnow.com/>
- Geophysics
- Meteorology
- Ocean Sciences

## Physical Sciences

- Mathematical Methods of Physics
- Quantum Mechanics
- Classical Mechanics
- Electromagnetic Theory
- Thermodynamic and Statistical Physics
- Electronics and Experimental Methods

## Chemical Sciences

- Inorganic Chemistry
- Physical Chemistry
- Catalysis and Green Chemistry
- Medicinal Chemistry
- Organic Chemistry
- Chemistry in nanoscience and technology
- Supramolecular Chemistry
- Environmental Chemistry

## Life Sciences

- Molecules and their Interaction Relevant to Biology
- Cellular Organization
- Diversity of Life Forms

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- Ecological Principles
- Cell Communication and Cell Signaling
- Developmental Biology
- System Physiology – Plant
- System Physiology – Animal
- Evolution and Behavior
- Applied Biology
- Methods in Biology
- Fundamental Processes
- Inheritance Biology

## Mathematical Sciences

- Analysis
- Linear Algebra
- Complex Analysis
- Calculus of Variations
- Linear Integral Equations
- Ordinary Differential Equations (ODEs)
- Partial Differential Equations (PDEs)
- Algebra
- Numerical Analysis
- Classical Mechanics
- Descriptive Statistics, Exploratory Data Analysis