

Shanti's NET/SET Mentoring Class



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- [Structure of atoms, molecules, and chemical bonds.](#)

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[CSIR/UGC NET/ SET Paper I](#)

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Unit 1 Teaching Aptitude

Unit 2 Research Aptitude

Unit 3 Comprehension

Unit 4 Communication

Unit 5 Mathematic reasoning and Aptitude

Unit 6 Logical Reasoning

Unit 7 Data Interpretation

Unit 8 Information and Communication Technology

Unit 9 People, Development and Environment

Unit 10 Higher Education

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[CSIR-UGC NET Life Sciences UNIT 1](#)

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1. MOLECULES AND THEIR INTERACTION RELEVANT TO BIOLOGY

- Structure of atoms, molecules, and chemical bonds.
- Composition, structure, and function of biomolecules (carbohydrates, lipids, proteins, nucleic acids, and vitamins).
- Stabilizing interactions (Van der Waals, electrostatic, hydrogen bonding, hydrophobic interaction, etc.).
- Principles of biophysical chemistry (pH, buffer, reaction kinetics, thermodynamics, colligative properties).
- Bioenergetics, glycolysis, oxidative phosphorylation, coupled reaction, group transfer, biological energy transducers.
- Principles of catalysis, enzymes and enzyme kinetics, enzyme regulation, mechanism of enzyme catalysis, isozymes
- Conformation of proteins (Ramachandran plot, secondary structure, domains, motif, and folds).
- Conformation of nucleic acids (helix (A, B, Z), t-RNA, micro-RNA).
- Stability of proteins and nucleic acids.
- Metabolism of carbohydrates, lipids, amino acids nucleotides, and vitamins.

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✚  CSIR NET Rapid Revision Rounds - Day 1 - Unit 1: Molecules and their Interaction Relevant to Biology. 	Edit ▾	☒
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