

29/5/24



School of Biological Sciences
Doon University
Dehradun, Uttarakhand
Question Paper: End term-Semester Examination
Session: Jan 2024 – Jun 2024

B.Sc. Biological Sciences (4th Semester)

Course: Biomolecules -II

Course Code: BSC251

Total Marks: 30

Maximum Time: 2:00 Hrs

PART I Give answers to any six questions:

(Marks: 1 × 6 = 6)

1. Write the name of any two metalloproteins.
2. Conjugated proteins contains..... and.....
3. Define K_m ?
4. What is the SI unit of enzyme activity?
5. Write the names of positively charged amino acids.
6. Which amino acid is the optically inactive?
7. Give the name of few super-secondary structures of proteins?

PART II Give answers to any four questions:

(Marks: 3 × 4 = 12)

8. Write a short note on ~~Michaelis~~ ^{Michaelis}-Menten equation.
9. What are the metal based drugs? Give example of two metal-based drugs with their functions.
10. What is competitive, non-competitive and uncompetitive inhibition?
11. What are proteinaceous amino acids? Explain the classes of amino acid based on metabolic fate.
12. Explain the regulation of ATCase enzyme.

PART III Give answers to any two questions:

(Marks: 6 × 2 = 12)

13. What is enzyme immobilization and why it is needed? Discuss the methods of enzyme immobilization.
14. Describe the methods of enzyme isolation and purification.
15. Discuss the different carriers in mitochondrial electron transfer chain.