

23P114

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Name:

Reg.No:

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2023

(CBCSS - PG)

(Regular/Supplementary/Improvement)

CC19P ZOL1 C01 - BIOCHEMISTRY AND BIOPHYSICS

(Zoology)

(2019 Admission onwards)

Time : 3 Hours

Maximum : 30 Weightage

Part-A

Answer any *four* questions. Each question carries 2 weightage.

1. Ionic bonds.
2. What is rancidity? How it can be prevented?
3. What are ribozymes?
4. Give the structure of shikimate. Describe the biosynthesis of chorismate from shikimate.
5. Give the structure of Cholesterol. Describe the synthesis of mevalonate from acetate.
6. Explain the mechanism of sodium potassium pump.
7. What is ionizing radiation? What are the types of ionizing radiations?

(4 × 2 = 8 Weightage)

Part-B

Answer any *four* questions. Each question carries 3 weightage.

8. Differentiate stereo and structural isomerism.
9. Briefly explain biosynthesis of trehalose.
10. Explain the salient feature of tRNA.
11. Explain the role of ATP as a free energy carrier in a biological system.
12. Explain Pentosephosphate pathway.
13. Explain Biosynthesis of cholesterol.
14. Write a short on the properties of colloids.

(4 × 3 = 12 Weightage)

Part-C

Answer any *two* questions. Each question carries 5 weightage.

15. Explain the classification of amino acids with suitable examples.
16. Describe the role of TCA cycle as the common oxidative pathway.
17. Explain the biosynthesis and degradation of different Pyrimidine nucleotides.
18. Write on the physical aspects of sound transmission in ear.

(2 × 5 = 10 Weightage)
