

20P114

(Pages: 1)

Name:

Reg. No.....

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2020

(CBCSS-PG)

(Regular/Supplementary/Improvement)

CC19P ZOL1 C01 – BIOCHEMISTRY AND BIOPHYSICS

(Zoology)

(2019 Admission onwards)

Time: Three Hours

Maximum: 30 Weightage

I. Answer any *four* questions.

1. What is epimer? Give an example.
2. Why amino acids are amphoteric?
3. Give any two biological role of lipids.
4. What is micro-RNA?
5. Define redox potential?
6. Give the biological importance of colloids?
7. What is echolocation?

(4 x 2 = 8 Weightage)

II. Answer any *four* questions

8. Give a short account on chemical nature and functions of prostaglandins?
9. What are the factors that influence the rate of enzyme catalyzed reactions?
10. Give the significance of HMP pathway.
11. Add a note on protein domains, motifs and folds.
12. Give an account of sound transmission of ear.
13. What is acid number? Give its significance.
14. Explain biosynthesis of lactose.

(4 x 3 = 12 Weightage)

III. Answer any *two* questions.

15. Discuss in detail the role of vitamins as co-enzyme.
16. Describe the pathway of glycolysis. Why PFK is considered as the pace maker of glycolysis?
17. Explain the biosynthesis of purine nucleotide?
18. Give an account of different types and source of ionizing radiation. Explain the major biological effects of ionizing radiation?

(2 x 5 = 10 Weightage)
