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K21P 4215

Reg. No. :

Name :

I Semester M.Sc. Degree (CBSS – Reg./Supple./Imp.)
Examination, October 2021
(2018 Admission Onwards)
ZOOLOGY
ZOO1C02 – Biological Chemistry

Time : 3 Hours

Max. Marks : 60

I. Answer **any two** of the following.

- 1) Briefly explain the biosynthesis of fatty acids.
- 2) Explain the electron transport chain in mitochondria and the mechanism of oxidative phosphorylation.
- 3) Give an account on TCA cycle with its energetics.
- 4) Give an account on classification of carbohydrates.

(2×12=24)

II. Answer **any two** of the following.

- 5) Differentiate deamination and transamination.
- 6) Briefly describe the beta pleated structure of proteins.
- 7) Briefly describe the factors affecting enzyme activity.
- 8) Give an account on different forms of DNA.

(2×8=16)

III. Answer **any four** of the following.

- 9) Differentiate between competitive and non-competitive inhibitors.
- 10) Write an account on urea cycle.
- 11) Write notes on Pentose Phosphate Pathway.
- 12) Comment on standard free energy concept.
- 13) Write notes on phospholipids and its functions.
- 14) Write an account on the tertiary structure of proteins.

(4×5=20)