



K21P 0563

Reg. No. :

Name :

**First Semester M.Sc. Degree (CBSS-Reg./Suppl.(Including Mercy
Chance)/Imp.) Examination, October 2020
(2014 Admission Onwards)
ZOOLOGY
ZOO1C02 : Biological Chemistry**



Time : 3 Hours

Max. Marks : 60

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

- 1) Give an account of factors affecting enzyme action. Comment on IUB classification.
- 2) Explain glycolysis and TCA cycle.
- 3) Describe the fatty acid oxidation with examples.
- 4) Discuss the structure of DNA and RNA. (2×12=24)

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

- 5) Give an account of inborn errors of amino acid metabolism.
- 6) Explain the mechanism of oxidative phosphorylation.
- 7) Describe free energy concept. Comment on enthalpy and entropy.
- 8) Discuss the metabolism of essential amino acids. (2×8=16)

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

- 9) Comment on energy-rich compounds.
- 10) Protein reactions.
- 11) Biosynthesis of phospholipids.
- 12) Vitamines as co-enzymes.
- 13) Michaelis-Menton equation.
- 14) Urea cycle. (4×5=20)
