



Reg. No. :

Name :



8045483

K19P 1522

I Semester M.Sc. Degree (CBSS-Reg./Suppl./Imp.)

Examination, October - 2019

(2014 Admission Onwards)

ZOOLOGY

ZOO1C02: BIOLOGICAL CHEMISTRY

Time : 3 Hours

Max. Marks : 60

- I. Answer any **TWO** of the following. (2x12=24)
1. Describe the mechanisms of enzyme action. Add a note on nomenclature of enzymes.
 2. Give an account of electron transport system in mitochondria. Comment on redox potential.
 3. Describe the biosynthesis and oxidation of fatty acids.
 4. Discuss the classification and derivatives of carbohydrates.
- II. Answer any **TWO** of the following. (2x8= 16)
5. Explain the regulation of glucose metabolism.
 6. Give an account on classification of proteins.
 7. Describe the biosynthesis and degradation of purines.
 8. Explain urea cycle.
- III. Answer any **FOUR** of the following. (4 x 5 =20)
9. Enthalpy and entropy.
 10. Chemiosmotic coupling hypothesis.
 11. Nucleosides and nucleotides.
 12. Protein reactions.
 13. HDL and LDL.
 14. Pentose phosphate pathway.
-