



Seat No. _____

HN-003-1182001

M. Sc. (Sem. II) (CBCS) (W.E.F. 2016) Examination

April - 2023

Biochemistry : ZOO-207

Faculty Code : 003

Subject Code : 1182001

Time : $2\frac{1}{2}$ Hours / Total Marks : 70

- 1** Answer the following very briefly : (any **seven**) **2×7=14**
- (a) Explain carbohydrates.
 - (b) Define Ramchandran plot.
 - (c) Define Enzyme inhibition.
 - (d) Define Entropy.
 - (e) Define allosteric protein.
 - (f) Define Co-enzyme.
 - (g) Define Compound lipids with example.
 - (h) Write the properties of lipids.
 - (i) Explain the substrate level phosphorylation.
 - (j) Define gluconeogenesis.
- 2** Answer the following questions : (any **two**) **2×7=14**
- (a) Describe heteropolysaccharide in detail.
 - (b) Describe quaternary structure of Protein in detail.
 - (c) Describe the law of thermodynamics.

3 Answer the following question : **7+7=14**

- (a) Discuss the classification of enzymes.
- (b) Explain Citric acid cycle.

OR

3 Answer the following question : **7+7=14**

- (a) Describe the Gluconeogenesis in detail.
- (b) Describe feedback inhibition.

4 Answer the following question : **7+7=14**

- (a) Explain Michaelis- Menten model.
- (b) Write a short note on mechanism of allosteric protein.

5 Answer the following question : (any **two**) **2×7=14**

- (a) Explain the Beta oxidation of lipid.
- (b) Write a short note on titration curve of Protein.
- (c) Write a short note on Glyoxalate pathway.
- (d) Write a short note on glycolysis.
