



MBZ-003-018201 Seat No. _____

M. Sc. (Zoology) (Sem. II) (CBCS) Examination

April / May - 2018

Zool - 207 : Biochemistry

(Old Course)

Faculty Code : 003

Subject Code : 018201

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

1 Answer the following very briefly : (Any Seven) 2×7=14

- (a) Define enzyme.
- (b) What is chitin?
- (c) Name few properties of protein.
- (d) Name few enzymes.
- (e) Name few amino acids.
- (f) What are coenzymes?
- (g) What is Km value?
- (h) Name the phases of glycolysis.
- (i) Write the net reaction of TCA.
- (j) Name the products of the Pentose Phosphate Pathway.

2 Answer of the following : (Any Two) 7×2=14

- (a) Classify lipids
- (b) Write a note on the beta-oxidation of unsaturated fatty acids.
- (c) Write a note on the main properties of monosaccharides.

3 Answer the following : 7×2=14

- (a) Discuss briefly the Co-enzymes involved in group transfer.
- (b) Describe β -sheet structure in detail.

OR

- 3** Answer the following : **7×2=14**
- (a) Write a note on the Secondary structure of Protein.
 - (b) Write a note on the Gluconeogenesis.
- 4** Answer the following : **7×2=14**
- (a) Write a note on the compound lipids.
 - (b) Write a short note on the significance of TCA cycle.
- 5** Answer the following : (Any **Two**) **7×2=14**
- (a) Write a note on the Homotropic Effects.
 - (b) Write a note on the irreversible inhibition.
 - (c) Discuss the importance of suicide inhibition.
 - (d) Describe the steps of Citric acid cycle.
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