

[Time: 2½ Hours]

[Marks:60]

Please check whether you have got the right question paper.

- N.B:**
1. All questions are compulsory
 2. All question carry equal marks.
 3. Draw neat and labelled diagram wherever necessary

- Q.1 Attempt any two questions from the follwing
- a. Classify amino acids based on their structure 06
 - b. Describe secondary and quaternary structure of protiens. 06
 - c. Explain in brief denaturation and protien folding. 06
 - d. Write in brief on biological functions of protiens 06
- Q.2 Attempt any two questions from the following
- a. Describe Koshland’s induced fit model for mechanism of enzyme action. 06
 - b. With reference to enzyme kinetics explain Michaelis Menten equation 06
 - c. Write in brief on ribozymes 06
 - d. Briefly describe isoenzymes of ADH and ALP 06
- Q.3 Attempt any two questions from the following
- a. Describe the fate of carbon skeleton of amino acids 06
 - b. Write in brief on salvation pathway 06
 - c. Describe Urea cycle 06
 - d. Explain in brief degradations of nucleotisdes 06
- Q.4 Attempt any two questions from the following
- a. With reference to lipid metabolism explain metabolic dosorders of cerebrosides. 06
 - b. Explain albinism. 06
 - c. Write in brief on primary Gout. 06
 - d. With reference to mineral metabolism explain hypocalcimia and hypercalcimia. 06
- Q.5 Write short notes on any four of the follwing
- a. Myoglobin 03
 - b. Cytochromes 03
 - c. Hemicellulase 03
 - d. Allostreric regulation 03
 - e. Transamination 03
 - f. Metabolism in starvation 03
 - g. G-6-PD deficiency 03
 - h. PKU 03