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PGDPPN-2, M.Sc. (DFSM)-2
1st Year Examination, Calendar Batch 2017
Nutritional Biochemistry

Time : 3 Hours]

[Max. Marks : 100

*Note. Attempt any **Five** questions. All questions carry equal marks.*

- Q.1. Classify proteins into three broad groups with one example from each group? Explain the four structural levels of proteins?
- Q.2. Describe the energetic and pathway of gluconeogenesis starting from lactate. Explain its biological significance.
- Q.3. Discuss the role of calcium in our body? Highlight significance of calcium as a signal transmitter.
- Q.4. Classify enzymes with appropriate examples. Mention the factors influencing enzyme activity. Draw the Michaelis-menton plot for and explain competitive inhibition with example.
- Q.5. What is meant by the term 'Nucleotide'? Name one of the nucleotide mentioning its bases?
- Q.6. Explain in detail:
- (a) Compare structural features of starch & cellulose
 - (b) Protein Energy Malnutrition
- Q.7. How are carbohydrates absorbed in our body? Explain the process of absorption of amino acids and peptides.
- Q.8. Write short note on any two:
- (a) Carotenoids
 - (a) Ketones
 - (b) Chlorophyll