

**Class test on C7T, 3<sup>rd</sup> Sem, Zoology Hons.**  
**Full Marks- 40, Time- 1.5 hrs**

**Short Questions (any 5)**

**5X2= 10**

1. Differentiate saturated and unsaturated fatty acid.
2. Differentiate nucleotide and nucleocide.
3. Differentiate deamination and transamination.
4. What is isozyme and ribizyme? Give example.
5. Mention the two names each of inhibitors and uncouplers in ETC.
6. What is saponification number?
7. Mention four names of essential aminoacids with their functional role.

**Broad Questions: (any 3)**

1. A) Define glycolysis. Narrate the steps involved in glycolysis. B) Define HMP shunt. Describe its steps briefly. 5+5= 10
2. **Write short notes on: (any 4)** 2.5X4= 10  
b) beta-oxidation of fatty acids, b) urea cycle, c) hyperchromici shift, d) enzyme inhibition, e) allosteric regulation, f) L-B plot
3. a) Write down the structures of secondary and tertiary structures of proteins. B) Define isoelectric pH and zwitterions. C) Differentiate B DNA and Z DNA. D) What is induced fit model? 3+3+2+2= 10
4. a) What is Km? B) Write the biological significance of polysaccharides. C) Write the name of 'stored carbohydrate'? d) What is the functional significance of eicosanoids? E) What is Chargaff's rule? 2+2+2+2+2= 10