



- 3 (a) Write about the Glycolysis 7  
(b) Write about the Oxidative deamination of amino acids and explain with examples. 7

OR

- (c) Give detailed note on Urea cycle with diagram. 7  
(d) Write note on Protein degradation. 7
- 4 Answer the following questions : 14  
(a) De Novo biosynthetic pathway for purine and pyrimidine nucleotide.  
(b)  $\beta$  - oxidation of saturated fatty acids process of activation, transport and  $\beta$  - oxidation of fatty acids.
- 5 Answer the following questions : (any two) 14  
(a) Digestion and absorption of lipids.  
(b) Write about the inhibitor of ETC.  
(c) Write about the architecture of Mitochondrion.  
(d) Outline about role of CoQ in mitochondrial ETS.

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