

- OR**

Q. 3 A Justify: Amino acids are degraded to metabolites that integrate into Krebs cycle. **08**

Q. 3 B Discuss the metabolic disorders associated with defects in urea cycle. **07**

OR

Q. 3 C Describe the mechanism of Transamination of amino acids. **08**

Q. 3 D Explain the structure of glutathione and state its significance. **07**

Q. 4 A Describe beta oxidation of saturated fatty acids. **08**

Q. 4 B Give detailed account of Purine catabolism. **07**

OR

Q. 4 C Elaborate reactions involved in the α -oxidation of a branched-chain fatty acid. **08**

Q. 4 D Explain three additional reactions involved in complete oxidation of odd number fatty acid. **07**

Q. 5 Write Short notes on **any three** of the following: **15**

- a. Metabolic disorders associated with pentose phosphate pathway.
 - b. Role of coenzyme Q in ETC.
 - c. Non oxidative deamination.
 - d. Role of Cyclic AMP-dependent protein kinase (PKA) in triacylglycerol mobilization.
 - e. ω - oxidation of fatty acid.
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