

Q1 Discuss isoenzymes with reference to definition, properties & LDH as an example. (10)

OR

Q1 a) What are membrane bound enzymes? Discuss their importance in transportation with Glycerol 3 phosphate dehydrogenase as an example. (06)

b) Describe covalent regulation in Glycogen Phosphorylase. (04)

Q2 Discuss in detail the reactions of Glycolysis with enzymes coenzymes & structures. (10)

OR

Q2 Describe Glycogenolysis with reference its reactions with enzymes coenzymes & structures. (10)

Q3 Discuss in detail how Urea is synthesized with regards to location, reactions, enzymes & structures. (10)

OR

Q3 Discuss how saturated fatty acid is oxidized in our cell with reference to its reactions, enzymes & structures. (10)

Q4 Discuss oxidation reactions of Krebs cycle in detail with reactions, enzymes & structures. What are the other names of it? (10)

OR

Q4 Describe Chemiosmotic theory for oxidative Phosphorylation. List all the evidences that support it. (10)

Section –II: Attempt any 10: (10)

- 1 Define Allosteric enzyme with an example.
- 2 Give one difference between metalloenzyme & metal activated enzyme.
- 3 Write only the reactions involved in conversion of Glucose 6 Phosphate to Glucose in Gluconeogenesis.

E1128-2

- 4 Define Glycogenesis.
- 5 Write one oxidation reaction of HMP SHUNT.
- 6 Define Ureotelic organism with example.
- 7 Which amino acids are required for synthesis of Creatine?
- 8 Name all the enzymes present in Fatty acid Synthase complex?
- 9 Draw labeled schematic diagram of Cori cycle.
- 10 Name the coenzymes of Pyruvate Dehydrogenase complex.
- 11 Draw a schematic diagram of electron transport chain (ETC)?
- 12 How many ATP are formed when glucose is degraded under anaerobic and aerobic conditions?

—X—