



## UNIT 2

### 10 MARKS

1. (a) Describe in detail about glycolysis ( Embden Meyerhof Pathway) with energetics and its regulation.
2. Explain Hexose mono phosphate shunt pathway and add a note on its metabolic significance\*
3. Describe the citric acid cycle with energetic.
4. Discuss about gluconeogenesis\*
5. Explain the process of glycogen breakdown pathway.
6. Define Oxidative Phosphorylation. What is the cellular site of Oxidative phosphorylation?\*

### 5 MARKS

1. Define and classify carbohydrate.
2. Electron transport chain
3. Summarize glycogenolysis.\*
4. Hexose Mono phosphate pathway.
5. Explain about glycogen storage diseases
6. Diabetes mellitus.
7. Oxidative Phosphorylation

### 2 MARKS

1. Define gluconeogenesis.\*
2. Define Bio molecules.
3. What is the significance of HMP shunt
4. Define gluconeogenesis and glycogenesis.
5. What is mutarotation?
6. Write the energetic for glycolysis pathway
7. Enlist uncouplers in oxidative phosphorylation
8. What is cellular respiration?
9. Oxidative phosphorylation.\*