

**Exam. Code : 107701**

**Subject Code : 1875**

**Bachelor of Food Science & Technology (Hons.)**

**1<sup>st</sup> Semester**

**FST-105 : INTRODUCTORY BIOCHEMISTRY**

Time Allowed—3 Hours] [Maximum Marks—50

**Note** :— Attempt any *five* questions. All questions carry equal marks.

1. What is TCA cycle ? Explain the various steps involved and its regulation. 10
2. Define carbohydrates. Give examples and functions of monosaccharides, disaccharides and polysaccharides. 10
3. Describe the Pentose phosphate pathways (HMP) and its significance. 10
4. Define vitamins. Explain the types of fat soluble vitamins, their roles and deficiencies in human health. 10
5. What are amino acids ? Describe the various polar amino acids and their structure. 10
6. Define fatty acids and describe the steps of beta-oxidation. 10
7. Define major and minor elements and their sources, biochemical functions, daily requirements and deficiency diseases of Fe, I, P, K and Zn. 10
8. Describe the digestion and absorption of carbohydrates and proteins. 10