

II B.Tech I Semester(R07) Supplementary Examinations, May/June 2010
BIOCHEMISTRY
(Bio-Technology)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. What do you mean by complex carbohydrates? Explain with examples. [16]
2. (a) Enzymes are specific explain How?
(b) Write the mechanism for driving forward the enzymes catalysed reaction [8+8]
3. Explain the relationship between Glyoxylate and citric acid cycle. [16]
4. Explain how oxidative phosphorylation is regulated. [16]
5. Define aromatic aminoacids and give any two examples. Describe the biosynthetic pathway of any one aromatic aminoacid. [2+14]
6. Give an outline on the biosynthesis of palmitate and identify the regulatory steps. [16]
7. Trace the pathway for the oxidation of glutamine and calculate the energetic. [12+4]
8. (a) Describe the reaction involved in the conversion of ribonucleotides to deoxyribonucleotides.
(b) Describe the reaction involved in the conversion of dUMP to dTMP. [8+8]
