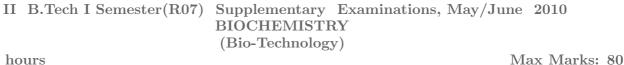
## Code No: R7212301



## Time: 3 hours

## Answer any FIVE Questions All Questions carry equal marks $\star \star \star \star \star$

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 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]

STATES

