

Code :9A23301

R9

II B.Tech I Semester(R09) Supplementary Examinations, May 2011
BIO CHEMISTRY
(Biotechnology)

Time: 3 hours

Max Marks: 70

Answer any FIVE questions
All questions carry equal marks

1. (a) Explain the properties of Oligo and polysaccharides.
(b) Explain the conformation of pyranose and furanose rings, glycosidic bond. Add a note on structure and importance of monosaccharides.
2. (a) What is enzyme activity ? outline the mechanism of action and control of enzymes.
(b) Write note on allosteric enzymes.
3. (a) What is Gluconeogenesis ? How it differs from Glycolysis. Explain.
(b) Write a note on Glycogenolysis and gluconeogenesis.
4. (a) Out line the events associated with electron transport and ATP synthesis.
(b) Give an account of Aerobic respiration.
5. (a) Outline the events of urea cycle.
(b) Explain the structure folding and functions of proteins.
6. Write notes on the following
 - (a) Glutamate pathway
 - (b) Senne pathway.
7. (a) Outline the composition classification and fuctions of lipoproteins.
(b) Give an account of the metabolism structure and functions of cholesterol.
8. What is neucloside ? Explain the structure and properties of puriners and pyramidines.
