

Code: R7 212301

R7

B.Tech II Year I Semester (R07) Supplementary Examinations, May 2012

BIOCHEMISTRY**(Biotechnology)**

Time: 3 hours

Max Marks: 80

Answer any FIVE questions

All questions carry equal marks

- 1 (a) Give an account of the structure, properties and physichogical functions of monosaccharides.
(b) Write a detailed note an structure, properties and functions of polysaccharides.
- 2 (a) Outline the types, nomenclature & functions of various enzymes.
(b) What is K_M . Describe Michelis Menten equation and add a note on its significance.
- 3 (a) Write the sequence of reactions of glycolysic and add a note on the energetics of glycolysis.
(b) Describe the events of TCA cycle. Explain its significance.
- 4 (a) Describe the mechanism of respiratory chain.
(b) Differentiate aerobic and anaerobic respleation.
- 5 (a) Give an account of physico- chemical properties of aminoacids.
(b) Describe the events of urea cycle.
- 6 (a) Describe the synthesis of glutamate.
(b) Explain the shiksmate pathway of production of aromatic aminoacids.
- 7 (a) Classify lipoprotein and add note on the functions.
(b) Explain the β . oxidation of fatty acids.
- 8 (a) What are anaplastic reactions? Explain.
(b) Explain the biosynthesis of pyramidines and purines.
