

Code: 9A23301

R09

B.Tech II Year I Semester (R09) Supplementary Examinations, May 2013

BIOCHEMISTRY

(Biotechnology)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 Write notes on:
 - (a) Cellulose.
 - (b) Glycogen.
 - (c) Starch.
- 2
 - (a) Write notes on nomenclature and functions of enzymes.
 - (b) Explain how substrate concentration affects enzyme activity and Michalis - Menten equation.
- 3 Describe the steps involved in glycolysis.
- 4 Write notes on:
 - (a) Respiratory chain.
 - (b) Anaerobic respiration.
- 5
 - (a) Give an account of primary and secondary structures of protein.
 - (b) Describe the steps involved in urea cycle.
- 6 Outline the steps involved in the glutamate pathway.
- 7
 - (a) Give an account of the structure and functions of cholesterol.
 - (b) Describe the steps involved in the fatty acid synthesis.
- 8
 - (a) Explain the structure of purines and pyrimidines.
 - (b) Degradation of nucleic acids.
