Code: 9A 23301

B.Tech II Year I Semester (R09) Supplementary Examinations, May 2012

BIOCHEMISTRY

(Bio Technology)

Time: 3 hours

Max Marks: 70

Answer any FIVE questions

All questions carry equal marks

- 1 (a) Describe the structure and properties of monosaccharides.
 - (b) Give an account of the structure and functions of glycoprotein, glucosamino glycans and lectins.
- 2 (a) Write a note on nomenclature and functions of enzyme.
 - (b) What is KM? Give an account on michaelis-menten enzymes and allosteric enzymes.
- 3 (a) Outline the steps involved in HMP path way.
 - (b) Write the sequence of reactions in glycolytic pathway.
- 4 (a) What is oxidative phosporelation? Write the events associated with respiratory chain.
 - (b) Write a note on aerobic and anaerobic respiration.
- 5 (a) Outline the classification and properties of amino acids.
 - (b) Give an account of nitrogen cyde and nitrogen balance.
- 6 Explain the shikimate pathway for the production of aromatic amino acids.
- 7 (a) Give an account of the biosynthesis of fatty acids.
 - (b) Metabolism of triglycerols and cholesterols.
- 8 Give an account of the biosynthesis and degradation of Neuclic acids

R9

