

B.E DEGREE EXAMINATIONS, APRIL/MAY 2014

B.E Biomedical Engineering - Regulation 2008

Semester III (Full Time)

BM 9203 BIOCHEMISTRY

Time: 3 hr

Max. Marks: 100

Answer ALL Questions

Part A (10x2=20 Marks)

1. Define buffer with one example?
2. What is meant by osmosis?
3. Write short notes on zwitter ion?
4. Write brief note on emulsification?
5. Define active site.
6. What is allosteric inhibition?
7. List out the functions of liver.
8. Define Goitre.
9. Write notes on the principle of electrophoresis?
10. Write the deficiency status of insulin?

Part B (16x 5 = 80)

11. Explain the principle, instrumentation, working & application of SDS electrophoresis (16)
12. a) Explain Henderson & Hasselbalch equation (16)
(OR)
b) Describe the covalent and non covalent forces involved in biomolecules (16)
13. a) Explain the classification of carbohydrates (16)
(OR)
b) Give a detail account of Watson & crick model of DNA (16)
14. a) Describe the steps involved in Glycolysis (16)
(OR)
b) Explain in detail TCA cycle (16)
15. a) Give the structure, functions and disorder of thyroid gland (16)
(OR)
b) Describe the structure, functions and deficiency state of glucagon (16)