

D 22417

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Name

Reg. No.

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, JANUARY 2012

(CUCSS)

General Biotechnology

GBT 102—BIOMOLECULES

(2010 Admissions)

Time : Three Hours

Maximum Weightage : 36

Section A

Answer all questions.

1. What is meant by bond linkage ?
2. Define : (i) Acid. (ii) Base.
3. Define Free Energy.
4. What is meant by Monosaccharide ?
5. Define Stereochemistry.
6. Define Eicosanoids.
7. List out the building blocks of DNA molecule.
8. List out the water soluble Vitamins.
9. Which molecule can be separated by Ion exchange chromatography ?
10. Define pH.

(10 x 1 = 10 weightage)

Section B

Answer any seven questions.

11. What is meant by heterocyclic compounds ?
12. According to H.H equation.
 p^H
13. Define Enthalpy.
14. Define Thermodynamics.
15. Classify Polysaccharides.
16. Name the Essential and non-Essential amino acids.
17. How proteins can be classified ?

Turn over

18. List out the hormones secreted by pituitary gland.
19. Define Isoprenoid.
20. What is the basic difference between MS and ESI-MS?

(7 x 2 = 14

Section C

Answer any two questions.

21. Explain X-ray Crystallography.
22. Explain Classification structure and function of Lipids.
23. Explain the structure and functions of Nucleic acid.

(2 x 6 = 12 weight,