

**P 10823**

**(Pages : 2)**

**Name**

**Reg. No.....**

**FIRST SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2010**

**(CUCSS)**

General Biotechnology

**GB 1C2—BIOMOLECULES**

Time : Three Hours

Maximum **Weightage** : 36

**Section A**

*Answer **all** questions.*

1. ~~Vasopressin~~ hormone is also called are \_\_\_\_\_
2. Which vitamin is needed for normal blood clot ?
3. ~~In SDS-PAGE~~ electrophoresis the protein will migrate towards cathode because \_\_\_\_\_
4. Define PK.
5. Define buffer.
6. Name the pigments present in the living system.
7. Give the expansion of **ESI-MS**.
8. List out the Nucleotides present in DNA molecule.
9. Name the bonds present in the Protein Structure.
10. What is meant by optically active ?

**(10 x 1 = 10)**

**Section B**

*Answer any **seven** questions.*

11. Define Osmosis.
12. Define **Entropy**.
13. List out the hormones Secreted by adrenal gland.
14. Define **phyto** hormone.
15. What is the principle behind electrophoresis technique ?
16. What is meant by secondary metabolite ?
17. List out the types of RNA and their functions.

**Turn over**

18. Draw the basic structure of an amino acid.
19. What is the difference between Fatty acid and triglyceride ?
20. What is the use of mass spectra ?

(7 x 2 =

### Section C

*Answer any two questions.*

21. Explain structure, classification and function of protein.
22. Explain the principle behind NMR.
23. Explain classification, structure and functions of Sugars.

(2 x 6 = 12