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SIIS 71 A-15
B.Sc. IInd Semester Degree Examination
Bio Technology (Opt)
(Bio Chemistry and Biophysics)
Paper - 2.5

Time : 3 Hours

Maximum Marks : 80

Instructions to candidates:

1. Answer **all** the questions.
2. Draw diagrams wherever necessary

I. Answer the following in brief.

(15×1=15)

1. Hydrogen bond
2. Riboflavin
3. Malt Sugar
4. Epimers
5. Amino acid
6. Protamines
7. Saponification
8. Nuclearide
9. Raman effect
10. First law of thermodynamics
11. Radio Isotopes
12. Nebulisers
13. Crystal lattice
14. LHC
15. NMR

II. Write short note on any **Five** of the following **(5×5=25)**

16. Classification of monosaccharides with examples.
17. Principle of absorption spectrum.
18. Waxes and steroids
19. Principle and applications of UV-visible spectrophotometry.
20. Secondary structure of proteins.
21. Ultrasound
22. General properties of Inorganic compounds

III. Write explanatory note on any **Four** of the following. **(4×10=40)**

23. Classify and add properties of fat soluble vitamins
 24. Structure and types of DNA.
 25. Method of CAT scanning of Biological system.
 26. Role of radio isotopy in biology
 27. Strategies of light reception in plants
 28. Types of chemical bonds and their functions.
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