

Roll No. _____

[Total No. of Pages : 2]

SIIS 76 A-2K12

B.Sc. IInd Semester Degree Examination

Biotechnology (Optional)

Biochemistry 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 a word or sentence

(15×1=15)

- 1) Prosthetic group
- 2) Ionic bond
- 3) Ultra sound
- 4) Radio Isotopes
- 5) Saturated Fatty acids
- 6) Calorimeter
- 7) Light Harvesting complex
- 8) Photo tropism
- 9) Z - Form of DNA
- 10) Crystallogram
- 11) Tertiary proteins
- 12) Nucleoside
- 13) Optic nerve
- 14) Codon
- 15) Tocopherol

II. Answer any five of the following :

(5×5=25)

- 16) Give an account on ECG
- 17) Write the types of RNA and add a note on their functions
- 18) Write a note on water soluble vitamins
- 19) Write the Principles and applications of Calorimeter
- 20) What are enzymes? Add a note on their properties
- 21) Explain the First Law of Thermodynamics.
- 22) Write a note on chemical properties of Carbohydrates.

III. Answer any four of the following :

(4×10=40)

- 23) Describe the principle instrumentation and applications of Raman Spectroscopy.
- 24) Explain the chemical properties of Fats.
- 25) Explain the X - ray crystallography and its applications.
- 26) Explain the process of nerve fibre impulse conduction
- 27) Describe the primary and secondary structure of proteins
- 28) Explain Isomerism in Monosaccharides.

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