DCBT – 301

III Semester B.Sc. Examination, February/March 2024
(NEP Scheme) (Freshers and Repeaters)
BIOTECHNOLOGY
Biomolecules (Paper – III)

Time : 2½ Hours | Max. Marks : 60

***Instruction** : Draw a neat labelled diagrams **wherever** necessary.*

SECTION – A

I. Write short answer on the following. **(5×2=10)**

1) Allosteric site

2) Saponification

3) Aldose

4) Di sulphide bond

5) Rancidity.

SECTION – B

II. Answer **any four** of the following. **(4×5=20)**

6) What are amino acid ? Give example.

7) Give an account on reducing and non reducing sugar. Give example.

8) Explain the principle and application of paper chromatography.

9) Give an account on steroid hormones.

10) Classify enzyme with suitable example.

P.T.O.

SECTION – C

III. Answer **any three** of the following. **(3×10=30)**

11) With neat labelled diagram explain the structure of protein.

12) Explain the role of fat soluble vitamin with example.

13) Enumerate the principle, procedure and applications of thin layer chromatography.

14) What are enzyme ? Discuss the mechanisms of action with reference to lock and key and induced fit model.

15) Write a note on :

a) Glycolysis

b) Structure of purines and pyrimidin bases.
