No. of Printed Pages : **2**

21BSC3C3BTL

Sl. No.

B.Sc. III Semester Degree Examination, April/May - 2024

BIOTECHNOLOGY

Bt-3 : Biomolecules

(NEP)

Time : 2 Hours Maximum Marks : 60

Note : *(i) Answer **all** sections.*

(ii) Draw the labelled diagrams wherever necessary.

SECTION - A

1. Answer the following sub-questions in **one** word or **one** sentence each. **10x1=10**

(a) Define Glycosidic bond.
(b) Expand FADH.
(c) What is isoelectric point ?
(d) What are the products of urea cycle ?
(e) What is rancidity ?
(f) What is Holoenzyme ?
(g) Name the deficiency disease of Vitamin-C.
(h) Define Endocrinology.
(i) What is Chromatography ?
(j) Define Spectroscopy.

SECTION - B

Answer **any four** of the following questions. **4x5=20**

2. Define Carbohydrates. Classify them with suitable examples.

3. Describe the beta pleated structure of proteins with examples.

4. Explain the nomenclature and IUBMB classification of Enzymes.

5. Give an account of the sources, symptoms and functions of Vitamin-C.

6. Explain the principle and applications of Electrophoresis.

7. Write a short note on the properties of Lipids.

P.T.O.

SECTION - C

Answer **any three** of the following questions. **3x10=30**

8. Explain the steps involved in Glycolysis with the schematic representation.

9. Write a detailed note on urea cycle.

10. Explain in detail about the clinical significance of enzymes.

11. Write a note on fat soluble Vitamins.

12. Elaborate the principles, procedures and applications of paper chromatography.

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