

This question paper contains 2 printed pages]

NA—75—2023

FACULTY OF SCIENCE AND TECHNOLOGY

B.Sc. (Second Year) (Third Semester) EXAMINATION

NOVEMBER/DECEMBER, 2023

(New Pattern)

ZOOLOGY

Paper-VII

(Biochemistry)

(Friday, 15-12-2023)

Time : 2.00 p.m. to 4.00 p.m.

Time—2 Hours

Maximum Marks—40

N.B. :— (1) Attempt *all* questions.

(2) Illustrate your answers with suitable diagram wherever necessary.

1. Explain in detail structure of Monosaccharides. 15

Or

(a) What is enzyme action ? Explain the mechanism of enzyme-substrate complex formation. 8

(b) Give an account of electrochemical properties of water. 7

2. Describe in detail Glycolysis Pathway. 15

Or

(a) Explain Beta Oxidation cycle of saturated fatty acids. 8

(b) Describe in detail transamination of amino acids. 7

P.T.O.

WT

(2)

NA—75—2023

3. Attempt any *two* out of four (each of 5 marks) :

10

- (a) Tertiary structure of protein
- (b) Factors affecting enzyme activity
- (c) Glycogenolysis
- (d) Disposal of nitrogenous waste.

NA—75—2023

2