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NB—15—2023

FACULTY OF SCIENCE

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

NOVEMBER/DECEMBER, 2023

(New Course)

BIOTECHNOLOGY

(Biomolecules)

(Tuesday, 05-12-2023)

Time : 10.00 a.m. to 1.00 p.m.

Time—3 Hours

Maximum Marks—75

N.B. :— (i) All questions are compulsory.

(ii) All questions carry equal marks.

(iii) Draw diagram if necessary.

1. Define carbohydrates. Discuss in detail classification of monosaccharides.15

Or

(a) Describe in detail structure and functions of oligosaccharides. 8

(b) Describe in detail structure and functions of polysaccharides. 7

2. Describe in detail nomenclature and classification of Enzyme 15

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Or

- (a) Describe in detail classification and role of Enzymes. 8
- (b) Discuss peptides classification with example. 7
3. Describe in detail Watson & Crick model. 15
- Or*
- (a) Explain nucleotides and nucleosides. 8
- (b) Explain properties and biological roles of nucleic acid. 7
4. Define Lipids and discuss classification of lipids with examples. 15
- Or*
- (a) Explain structure and functions of fat soluble vitamins. 8
- (b) Describe in detail Water Soluble Vitamins. 7
5. Write short notes on (any *three*) : 15
- (i) Glycogen
- (ii) ATP
- (iii) X-helix
- (iv) Biological role of lipids
- (v) Forms of DNA.

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