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T – 5968

Reg. No. : .....

Name : .....

**First Semester M.Sc. Degree Examination, May 2024**

**Biotechnology**

**BT 102 : BIOCHEMISTRY**

**(2018 Admission Onwards)**

Time : 3 Hours

Max. Marks : 75

I. Answer any **two** of the following.

1. Define carbohydrates. Describe the features of human-digestible carbohydrates. Describe the classification of carbohydrates.
2. Classify and describe the helical structures of DNA. Explain biological roles of different nucleotides.
3. Classify enzymes on reaction types. What is enzyme activation? Describe clinical application of enzymes.

**(2 × 15 = 30 Marks)**

II. Answer any **nine** of the following.

4. What are phospholipids?
5. Explain biologically significant disaccharides
6. What are structural polysaccharides
7. Describe Ramachandran Plot.
8. What are beta-amino acids?

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9. Write significance of non-genetic functions of nucleic acids.
10. Explain glycogenesis.
11. What are glycolipids?
12. Explain beta-oxidation of lipids.
13. What are ketone bodies?
14. Explain co-enzymes with examples.
15. Distinguish photosystems I and II.

**(9 × 5 = 45 Marks)**

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