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B.Sc.(BT) (2014 to 2017) (Sem.-2)

Subject Code : BSBT-108

Max. Marks : 60

1. **SECTION-A is COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **FIVE** questions carrying **FIVE** marks each and students have to attempt any **FOUR** questions.
3. **SECTION-C** contains **THREE** questions carrying **TEN** marks each and students have to attempt any **TWO** questions.

Q1. Answer briefly :

- Define Monosaccharides. Give example and the structure.
- Write the name and molecular structure of a reducing disaccharide.
- Write the structures of cAMP and its role.
- Write the names of aromatic aminoacids.
- Write the structure and function of a c-20 fatty acid.
- What is apoprotein?
- Write the names of functional oligopeptides.
- Define Enzymes.
- Discuss peptide bond.
- Write the different types of bases present in RNA.

SECTION-B

- Q2. How many types of phospholipids are there? Classify and give structures.
- Q3. Describe Hybridization of DNA. Why it is important to us?
- Q4. Describe Mutarotation with an example.
- Q5. Describe and distinguish α, β, γ DNA.
- Q6. Describe and distinguish the structure and function of starch and glycogen.

SECTION-C

- Q7. Discuss Watson and Crick model of DNA and draw the molecular structure of 5' ATTGC 3' and its complementary strand.
- Q8. Describe the different types of secondary structures present in proteins with the help of labeled diagrams. Give examples.
- Q9. Describe in detail various types of phospholipids and their structures and functions.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.