

B.Sc. CBCS Pattern Semester-II
01A / 014A - Microbiology Paper-I (General Biochemistry)

P. Pages : 2

Time : Three Hours



GUG/W/23/11588

Max. Marks : 50

1. Describe the different types of Bonds. 10

OR

- a) Explain the condition of cell in hypertonic solution. 2½
- b) Discuss the concept of Atom. 2½
- c) Explain structural isomers. 2½
- d) Give the concept of molecule. 2½

2. Describe the different structural levels of proteins. 10

OR

- a) Explain the general structure of amino acid. 2½
- b) Write about uncommon amino acid. 2½
- c) Classify the amino acids based on R group. 2½
- d) Classify the protein based shape and source. 2½

3. Write in detail the structure of lactose and maltose. 10

OR

- a) Explain the structure of starch. 2½
- b) Give the classification of carbohydrate. 2½
- c) Explain triglycerides. 2½
- d) Give the classification of lipid. 2½

4. Describe in detail structure of DNA. 10

OR

- a) Describe the structure of m-RNA. 2½
- b) Explain the structure of t-RNA. 2½
- c) Write about nucleoside and nucleotide. 2½
- d) Write about r-RNA structure. 2½

5. Write **any ten** answers (each carry 1 mark).

10

- a) What is buffer?
- b) What is isotonic solution?
- c) What is optical isomer?
- d) Name sulphur containing amino acid.
- e) Name the acidic amino acid.
- f) Give the example of quaternary structure protein.
- g) What is oligosaccharide?
- h) Name the sugar present in sucrose.
- i) What is trisaccharide? Give example.
- j) What is purine? Give example.
- k) Give the name of t-RNA structure model.
- l) What is nucleotide?
