



Department of Microbiology and Biotechnology
R. C. Patel Arts, Commerce and Science College, Shirpur

State Level Microbiological Contest

Max. Marks – 100

S.Y.B.Sc.

Time – 1 Hr.

Read the following instructions carefully before you begin to answer the questions.

- I. This question paper contains 50 questions.
- II. All questions have FOUR options
- III. All questions are compulsory and each question carries 02 marks.
- IV. There will NOT be any negative marking for incorrect answer. But incorrect answers will be considered to determine the rank.
- V. You will be supplied the ANSWER SHEET separately by invigilator. You must write your name and class on the answer-sheet carefully, failing to which your ANSWER SHEET will not be evaluated and you will be awarded with 'zero' marks.
- VI. Answer must be shown by writing a correct option, either A, B, C or D (in capital letter) on the ANSWER SHEET against the relevant question number by BLUE or BLACK ball point pen only.

1. The amino acid that accounts for disulfide bond in the tertiary structure of protein is ...
 - a) Tyrosine
 - b) Cysteine
 - c) Glycine
 - d) Serine
2. RNA plays important role in which biological process?
 - a) Glycolysis
 - b) Protein synthesis
 - c) Lipid metabolism
 - d) Water transport
3. Phospholipid contains...
 - a) 3 fatty acids bound to glycerol
 - b) 3 fatty acids and a phosphate
 - c) 2 fatty acids and phosphate bound to glycerol
 - d) 3 cholesterol bound to glycerol
4. Peptidoglycan is ...
 - a) Protein
 - b) Homopolysaccharide
 - c) Glycoprotein
 - d) Heteropolysaccharide
5. Thiamine is _____ in t-RNA
 - a) Absent
 - b) Present as an unusual base
 - c) Present
 - d) Methylated
6. In catabolism, _____ molecules are converted into _____ molecules.
 - a) Large, small
 - b) Small, large
 - c) Amino acids, proteins
 - d) Glucose, starch
7. Pyruvic acid is processed in aerobic respiration by ...
 - a) Glycolysis
 - b) Carboxylate pathway
 - c) Krebs's cycle
 - d) HMP pathway
8. Fermentation of glucose molecule has potential to produce _____ ATP molecules.
 - a) 3
 - b) 8
 - c) 2
 - d) 36
9. Yeasts and molds are _____ and _____ fungi respectively.
 - a) Macroscopic, Microscopic
 - b) Unicellular, multicellular
 - c) Motile, non-motile
 - d) Water, terrestrial