



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

State Level Microbiological Contest

Max. Marks – 100

T.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. F factor play major role in which bacterial process?
 - a) Transcription
 - b) Translation
 - c) Conjugation
 - d) Reproduction
2. The process by which the plasmids are eliminated from cell?
 - a) Fixing
 - b) Breaking
 - c) Curing
 - d) Abolishing
3. A mutant *E. coli* having genotype $\Gamma^- o^+ z^+ y^+ a^+$ will...
 - a) not grow on MacConkey's agar plate
 - b) produce pink colour on MacConkey's agar plate
 - c) produce white colour colony on MacConkey's agar plate
 - d) form microcolonies on MacConkey's agar plate
4. Which of the following mutation in nucleotide sequence is more lethal for a cell?
5' AUCGCUAUC 3'
 - a) G replaced by A
 - b) G replaced by U
 - c) G deleted from sequence
 - d) G replaced by C
5. A genomic library is ...
 - a) Database of an organism's genome sequence
 - b) A library of sequenced genome
 - c) A collection of books that describes how to isolate DNA
 - d) Collection of many clones possessing different DNA fragments of an organism
6. In genetic engineering, a chimera refers to...
 - a) An enzyme that links DNA molecule
 - b) A plasmid that contains foreign DNA
 - c) A viral DNA incorporated into chromosome
 - d) Plasmid incorporated in chromosome
7. Which bacterial genome was first to be completely sequenced?
 - a) *Escherichia coli*
 - b) *Streptococcus pneumoniae*
 - c) *Haemophilus influenzae*
 - d) *Staphylococcus aureus*
8. The preserved stock culture of *Clostridium* spp. is heat shocked during inoculum development in order to...
 - a) Stimulate spore germination
 - b) Eliminate weaker spore
 - c) To avoid vegetative contaminants
 - d) All of the above