

[2]

OR

Discuss the genetic recombination in bacteria.

4. Discuss the procedure for isolation, purification, growth and maintenance of microorganisms. [10]

OR

Describe the process of maintenance and preservation of microbes.

5. Discuss the principles and application of Atomic absorption spectroscopy. [10]

OR

Describe the principle and biological application of NMR.

6. Describe in details about DNA sequencing and its application. [10]

OR

Discuss the principle and application of SDS-PAGE for separation of proteins.



SA - 40

2023

Full Marks - 70

Time - 3 Hours.

The figures in the right-hand margin indicate marks.

Answer ALL questions.

Group - A

1. Answer all the following questions : [5×4=20]
- (a) Mycoplasma
 - (b) SARS
 - (c) Batch culture
 - (d) Beer Lambert's law
 - (e) AGE

Group - B

- Answer all the following questions : [10×5=50]
2. Discuss the Bergy's manual for classification of microbes. [10]

OR

- Give an account of major microbial groups of aerobic and anaerobic habitat.
3. Describe the replication and life cycle of Bacteriophage. [10]

P.T.O.