

**B.Sc. 2nd Semester (Latest)
Examination, May-2023
BIO-TECHNOLOGY
Paper - BT-202
Microbiology**

Time allowed : 3 hours]

[Maximum marks : 40

Note : *Question no.1 is compulsory and attempt four questions selecting one question from each unit given below. All question carries equal marks.*

- 1. Write the short notes on following:** **4×2=8**
- (a) Economical importance of fungi
 - (b) Microbial Strain
 - (c) Growth curve
 - (d) Chemo-therapeutic agents

Unit-I

- 2. What is the virus? Describe the various similarities and differences between viruses and bacteria.** **8**
- 3. Write the notes on any two:** **2×4=8**
- (a) Microbial phylogeny
 - (b) History and development of microbiology
 - (c) Protozoan

Unit-II

4. What is culture media? How the culture medium is important for microbial isolation. 8
5. Write the notes on any two: $2 \times 4 = 8$
- (a) Sterilization and disinfection
 - (b) Source of industrially important microbes
 - (c) Preservation of microorganism

Unit-III

6. Write the notes on any two: $2 \times 4 = 8$
- (a) Transformation
 - (b) Endospores in bacteria
 - (c) Glycolysis
7. What is microbial growth? How can you measure bacterial growth? 8

Unit-IV

8. What is food Microbiology? Describe various microbial agents responsible for foodborne infections in us? 8
9. Write the notes on any two: $2 \times 4 = 8$
- (a) Yeast and Molds
 - (b) Bacterial pollution of water
 - (c) Industrial uses of microorganisms