

B.Sc. 1st Semester (Honours) Examination-2022-23

MICROBIOLOGY

Course ID : 12211 Course Code : SH/MCB/101/C-1

**Course Title : Introduction to Microbiology &
Microbial Diversity (New)**

Time : 1 Hour 15 Minutes

Full Marks : 25

The figures in the right hand margin indicate full marks.

*Candidates are required to give their answers in their
own words as far as practicable.*

Unit-I

1. Answer any *five* questions : 1×5=5

(a) State the contribution of Robert Koch.

(b) Why gelatin was replaced by agar?

(c) Define heterothallism.

- (d) What is Mad-cow disease?
- (e) What do you understand by hormogonia?
- (f) Name one beneficial fungus.
- (g) What are porins?
- (h) What do you mean by eye spot of algae?

Unit-II

2. Answer any *two* questions : $5 \times 2 = 10$

- (a) State the theory of spontaneous generation 5
- (b) What are archaea and bacteria? Provide one example for each of them. $2 \frac{1}{2} + 2$
- (c) Write in brief on Carl Woese 3 domains Classification. Mention one drawback of Carl Woese Classification. 4+1

- (d) Discuss in short about diversity of pigments found in algae. What is the significance of heterocyst? 4+1

Unit-III

3. Answer any *one* question : $10 \times 1 = 10$

- (a) Write down the general characters of Protozoa. Write a short note on economic importance of Protozoa. 6+4
- (b) Mention the general characteristic features of fungi. Add a note on principle and applications of Phase Contrast Microscope. 5+5