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22-23/12212

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

MICROBIOLOGY

Course ID : 12212 Course Code : SH/MCB/102/C-2

Course Title : Bacteriology (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 <i>five</i> questions :		1×5=5
	(a)	What do you mean by generation time?	
	(b)	Distinguish between selective and differential	media.
	(c)	Mention two important characters of archaeb	acteria.
	(d)	What do you mean by bacterial strain?	

- (e) What do you mean by synchronous culture?
- (f) What is phenol co-efficient?
- (g) What are mesosomes?
- (h) What do you mean by lyophilization?

Unit–II

- **2.** Answer any *two* questions : $5 \times 2=10$
 - (a) Give one example each for Gram positive and Gram negative endospore forming bacteria. Why bacterial endospores are so resistant in nature? 2+3
 - (b) Name two acid fast bacteria. How do you distinguish them from non-acid fast bacteria? 2+3
 - (c) What is periplasmic space? Write a short note on outer membrane of Gram negative bacteria.

1+4

(d) Write a short note on Chemical methods for controlling micro organisms. 1+4

3

Unit–III

- **3.** Answer any *one* question : $10 \times 1=10$
 - (a) Discuss the ultra structure of a typical
 Gram-negative bacterial flagellum with suitable
 diagram.
 - (b) What are the methods by which you can cultivate anaerobic bacteria in laboratory? Briefly describe different procedure for isolation of pure culture.

3+7

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(Turn Over)