Roll No.

Total Pages : 2

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January 2023 M.Sc. (Life Sciences) Ist SEMESTER General Microbiology (MLS 103)

Time : 3 Hours]

[Max. Marks: 75

Instructions :

- 1. It is compulsory to answer all the questions (1.5 marks each) of Part-A in short.
- 2. Answer any four questions from Part-B in detail.
- 3. Different sub-parts of a question are to be attempted adjacent to each other.
- 4. Draw well labelled diagram wherever required in the answers.

PART-A

1.	(a)	Cyanobacteria.	(1.5)
	(b)	Prions.	(1.5)
	(c)	Adenovirus.	(1.5)
	(d)	PGPR.	(1.5)
	(e)	Spoilage of food.	(1.5)
	(f)	Basis of classifying virus.	(1.5)
	(g)	Gaspakjar.	(1.5)
	(h)	Economic importance of Algae.	(1.5)

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(i)	Golden	era	of	microbiology.	(1.5)

(j) Life cycle of Basidiomycetes. (1.5)

PART-B

2.	(a)	Explain sterilization and its various types. Write a note on growth curve. (10)			
	(b)	Explain mycoplasma and mycobacterium with example. (5)			
3.	(a)	Discuss medically and industrially important microbes. (5)			
	(b)	Discuss the features for bacterial classification as per Bergy's Manual of systemic bacteriology. (10)			
4.	Distinguish between ecto and endo mycorrhizae. In detail explain legume rhizobia symbiosis. (15)				
5.	(a) (b)	Explain Food borne disease with examples. (5)			
6.	(a) (b)	With well labelled diagram explain endospore. (10) Distinguish between Gram Positive and Gram Negative Bacteria. (5)			
7.	Wł iso	at is pure culture? Explain the various techniques for lating and preserving microbes. (15)			

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