D 7161	(Pages: 2)	Name
	•	Reg. No
THIRD SEMESTER B.A./B.Sc. DEGREE EXAMINATION, NOVEMBER 2019		
	(CUCBCSS—UG)	
	Botany	
вот	3B 03—MICROBIOLOGY, MYCOLOGY, PHYCOLOGY PLANT PATHOLOGY	OGY, LICHENOLOGY AND
Time : Thre	ree Hours	Maximum : 80 Marks
Part A		
I. Ans	nswer all questions (1 mark each):	
Y	Bacteria with comma shape is called ———.	
2	The primary host of Puccinia graminis is————.	
3	Leafy lichens are called ———.	
4	Wart like structures formed from the lichen thallus is kn	nown as ————.
5	Bunchy top of banana is caused by ———.	•
6	Why Deuteromycetes are termed "fungi imperfecti"?	
7	What is plant quarantine?	
8	What is SCP?	
9	What is a plasmid?	
10	What is a dikaryon?	
		$(10 \times 1 = 10 \text{ marks})$
Part B		
II. Ans	nswer all questions - Short answer (2 marks each):	•
11	Explain heterothallism with example.	
12	What are the general symptoms of plant diseases?	
13	Explain the ecological importance of lichens.	
14	Differentiate between uredospore and teleutospore.	

15 What is TMV? How it is transmitted?

17 Comment on the role of microbes in alcohol and acid production.

16 What are viroids?

Turn over

- 18 Illustrate the fruiting body of Peziza.
- 19 What is mutualism?
- 20 What are fungal toxins?

 $(10 \times 2 = 20 \text{ marks})$

Part C

- III. Answer any six questions. Short essay (6 marks each):
 - 21 Give a brief account on reproduction in lichen.
 - 22 Discuss the symptoms and control measures of Bunchy top of Banana.
 - 23 Explain the gill structure in Agaricus with suitable illustrations.
 - 24 Enumerate the industrial applications of bacteria.
 - 25 Discuss different kinds of spores in major groups of fungi.
 - 26 Explain the nutritional classification of bacteria.
 - 27 Write on the chemical and biological methods to control plant disease.
 - 28 Comment on various growth forms of lichens.

 $(6 \times 5 = 30 \text{ marks})$

Part D

- IV. Answer any two questions. Essay (10 marks each):
 - 29 Explain the ultrastructure and genetic recombination in bacteria.
 - 30 Write an account on economic importance of fungi in agriculture, food, medicine and industry.
 - 31 Discuss the disease cycle and control measures of Quick Wilt of Pepper and Root wilt of Coconut?

 $(2 \times 10 = 20 \text{ marks})$