

QP CODE: D2BBT2501	(Pages: 2)	Reg. No :
		Name :
SECOND SEMESTER FYUGP EXAMINATION, APRIL 2026		
(Regular/Improvement/Supplementary)		
Discipline Specific Core (DSC) Courses - Major		
BOT2CJ101 : Microbial Diversity and Phytopathology		
(Credits: 4)		
Time: 2 Hours	Maximum Marks: 70	
Section A		
Answer the following questions. Each carries 3 marks (Ceiling: 24 marks)		
1. How did social distancing measures during COVID-19 help in controlling the virus?	BL1	CO1, CO3
2. How does the kingdom <i>Protista</i> serve as a transitional group between the prokaryotes (Monera) and eukaryotes (Fungi, Plantae, Animalia)?	BL2	CO3
3. What are microorganisms ?	BL1	CO1
4. Name the two types of transduction and explain their basic difference.	BL1	CO1, CO2, CO3, CO4, CO5
5. Explain why human cells are not affected by penicillin.	BL3	CO1, CO2, CO3, CO4, CO5
6. What is the function of murein in bacteria?	BL2	CO1, CO2, CO3, CO4
7. Why do some bacteria form endospores? Give an example of a spore-forming bacterium.	BL2	CO1, CO2, CO3, CO4
8. What are the benefits of using biofertilizers?	BL2	CO1, CO3, CO4
9. Explain Bioaugmentation?	BL2	CO1, CO3, CO4
10. Illustrate the symptoms of blast disease of paddy.	BL3	CO5
(PTO)		

Section B

Answer the following questions. Each carries 6 marks (Ceiling: 36 Marks)

11.	Describe the structure of a virus with a labeled diagram.	BL2	CO1, CO3
12.	Explain the lytic cycle of T4 bacteriophage with a labeled diagram.	BL2	CO1, CO2, CO3
13.	Discuss the advantages and limitations of different plating methods for pure culture isolation.	BL3	CO1, CO2, CO3, CO4, CO5
14.	Explain how spore formation in bacteria helps in survival under harsh conditions.	BL3	CO1, CO2, CO3, CO4, CO5
15.	How does antibiotics works in our body?	BL2	CO1, CO3, CO4
16.	Explain different symptoms associated with fungal plant diseases.	BL2	CO5
17.	Explain Integrated Disease Management.	BL2	CO5
18.	Illustrate host-parasite interactions with suitable examples.	BL3	CO5

Section C

Answer any one question. Each carries 10 marks (1 x 10 = 10 Marks)

19.	Describe different methods of stocking of pure cultures.	BL3	CO1, CO2, CO3, CO4, CO5
20.	Write an Essay on Viruses as tools in Genetic engineering?	BL2	CO1, CO3, CO4

CO : Course Outcome

BL : Bloom's Taxonomy Levels (1 – Remember, 2 – Understand, 3 – Apply, 4 – Analyse, 5 – Evaluate, 6 – Create)