Reg.			
No			

GIET UNIVERSITY, GUNUPUR - 765022

M. Sc. (First Semester) Regular Examinations, February - 2024

22BTPC104 - Microbiology

(Biotechnology)

Maximum: 70 Marks

(The figures in the right hand margin indicate marks.) PART – A		(2 x 10 = 20 Marks)		
Q.1.	Answer ALL questions	C	O #	Blooms Level
a.	What are the applications of microbiology?	C	201	K1
b.	Differentiate between mycoplasma and mycobacteria.	C	201	K4
c.	What are methanogens?	C	202	K1
d.	What are different types of media used in microbial culture?	C	203	K2
e.	What is a bacteriophage?	C	202	K1
f.	Differentiate between virus and viriods.		202	K4
g.	What are MFCs?	C	204	K2
h.	Define ruminant symbiosis.	C	204	K2
i.	What is the importance of cilia and flagella in bacteria?	C	202	K2
j.	What is pseudomonas used for?	C	202	K1
PART – B		(10 x 5=50 Marks)		
<u>Ans</u>	wer ANY FIVE questions	Marks	CO #	Blooms Level
2. a	. Explain the theory of spontaneous generation.	5	CO1	K2
b	. Mention the contribution of some scientist in the field of microbiology.	5	CO1	K2
3.a	. How can you isolate and culture microorganisms using streak plate method?	5	CO3	K1
b	. Mention the role of fungi in various fields.	5	CO2	K2
4	. Classify bacteria according to its different criterias.	10	CO1	K2
5.a	. Write short note on Lactic and propionic acid bacteria.	5	CO2	K2
b	. What are halophiles? Classify them and mention their uses.	5	CO2	K1
6. a	. How can you control the unwanted growth of microorganisms?	5	CO3	K3
b	. What are antibiotics? Mention their types and application.	5	CO4	K2

Describe about the different methods of virus replication. 10 CO2 K2 7. CO4 K2 8. a. What are the roles played by microorganisms with respect to environment? 5 5 CO4 K3 What is bacterial quorum sensing? Mention its importance. b.



Time: 3 hrs