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GIET UNIVERSITY, GUNUPUR – 765022
M. Sc. (First Semester) Examinations, March – 2023
22LSPC103 - Microbiology and Pathology
(Life Science)

Time: 3 hrs

Maximum: 70 Marks

(The figures in the right hand margin indicate marks.)

PART – A**(2 x 10 = 20 Marks)****Q.1. Answer all questions**

	CO#	Blooms Level
a. Define diauxy growth?	CO2	K1
b. Emphasize the role of oncogenes?	CO4	2
c. What do you mean by chemoheterotrophy?	CO2	1
d. Difference between benign & malignant tumour?	CO4	1
e. Name two reagents used in acid fast staining?	CO1	2
f. Difference between virulent & temperate phage?	CO3	2
g. What is the role of F-plasmid?	CO3	1
h. Name two environmental factor exposures leading to disease?	CO4	2
i. What are sterilants? Give examples?	CO1	1
j. What do you mean by broad spectrum antibiotic? Give example?	CO2	1

PART – B**(10 x 5 = 50 Marks)**Answer ANY FIVE questions

	Marks	CO#	Blooms Level
2. a. Write notes on viroids and prions ?	5	CO1	2
b. Discuss about the use of microbes in agriculture?	5	CO2	3
3.a. Discuss about lytic and lysogenic life cycle of virus?	5	CO3	3
b. Discuss about the general principals of microbial pathogenesis?	5	CO4	3
4. a. Explain about metagenomics with application?	5	CO3	3
b. Discuss about antibiotics with its mode of action?	5	CO2	3
5.a. Discuss about brief outline survey of microbes such as yeast AND cyanobacteria?	5	CO2	3
b. Discuss about bacterial transformation process?	5	CO3	3
6. a. Discuss about nutritional deficiencies and obesity related disorder?	5	CO4	3
b. Discuss about sterilization and its types?	5	CO1	3
7.a. Write notes on virus as a tool for genetic engineering?	5	CO3	2
b. Write notes on bacterial nutrition?	5	CO2	2
8. a. Explain about bacterial growth with factors affecting bacterial growth?	5	CO2	3
b. Discuss about bacterial cell structure and its morphological feature?	5	CO1	3

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