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GIET UNIVERSITY, GUNUPUR – 765022
M. Sc (First Semester) Examinations, May – 2021
20LSPC103 – MICROBIOLOGY AND PATHOLOGY
(Life Science)

Time: 2 hrs

Maximum: 50 Marks

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

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

- a. What are prions?
- b. Write a short note on mycoplasma.
- c. What is necrosis?
- d. Explain lytic cycle of virus.
- e. Explain the mechanism of transduction.
- f. Why endospores are formed? Give an example of a bacterial species capable of forming endospores.
- g. How is Gram positive bacteria different from Gram negative bacteria?
- h. What is an antibiotic? Cite few examples.
- i. What is the difference between benign and malignant tumour?
- j. Write a short note on microbial growth.

PART-B**(6 × 5 = 30 Marks)**Answer **ANY FIVE** questions

Marks

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| 2. Give a brief note on classification of microorganisms. | (6) |
| 3. What is a culture media? How two different bacterial species can be screened using culture media with suitable examples. | (6) |
| 4. Elaborate genetic recombination of bacteria by conjugation. | (6) |
| 5. What are the various sterilization process practiced in microbiology laboratory? | (6) |
| 6. What are the general principles of microbial pathogenesis? | (6) |
| 7. What is pure culture? Describe various pure culture techniques. | (6) |
| 8. Discuss any five disorders caused due to nutritional deficiency. | (6) |

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