

QP CODE: 24900177



Reg No:.....

Name:.....

MAHATMA GANDHI UNIVERSITY, KOTTAYAM
FIRST SEMESTER MGU-UGP (HONOURS) REGULAR
EXAMINATION NOVEMBER 2024

First Semester

**Discipline Specific Core Course - MG1DSCMBG100 - UNSEEN WORLD OF
MICROBES**

(2024 ADMISSION ONWARDS)

Duration: 2 Hours

Maximum Marks: 50

**Remember (K), Understand (U), Apply (A), Analyse (An), Evaluate (E), Create (C), Interest (I),
Appreciation (Ap), and Skill (S)**

*Students should attempt atleast one question from each course outcome to enhance their overall
outcome attainability.*

[Learning Domain][CO No(s)]

Part A

Answer any 10 out of 12, 2 mark each

- | | | |
|---|---|---------|
| 1 | State Spontaneous generation theory. | [K] [1] |
| 2 | List out the contributions of Antony van Leeuwenhoek. | [K] [1] |
| 3 | Name the theory disproved by Louis Pasteur? | [K] [1] |
| 4 | Give example of a vaccine and mention its use. | [K] [1] |
| 5 | How does the domain Bacteria differ from Archaea? | [K] [2] |
| 6 | Define Prokaryotes? | [U] [3] |
| 7 | Explain the Functions of flagellum? | [U] [3] |
| 8 | Define mesosomes? | [U] [3] |
| 9 | Explain the function of Ribosomes? | [U] [3] |

- 10 Write a note on Bacterial cell wall? [U] [3]
- 11 Give notes on mitochondria? [U] [3]

(10 × 2 = 20)

Part B

Answer any 4 out of 6, 5 marks each.

- 12 List out Koch's postulate. [K] [1]
- 13 Describe the discovery of Penicillin [K] [1]
- 14 As a microbiology student suggest methods to improve crop yield using microbes. [K] [1]
- 15 What are the features of three kingdom classification? [K] [2]
- 16 Discuss in detail about the morphological characteristics of Bacteria? [U] [3]
- 17 Briefly Explain any 5 beneficial and harmful effect of microbes and provide examples for each. [U] [3]

(4 × 5 = 20)

Part C

Answer any 1 out of 2/ 10marks each.

- 18 Explain in detail about recent trends in microbiology [K] [2]
- 19 What are the main characteristics and features of Viruses. [U] [3]

(1 × 10 = 10)

END OF THE QUESTION PAPER
