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QP CODE: 24900271

Reg No:....

Name:.....

MAHATMA GANDHI UNIVERSITY, KOTTAYAM

FIRST SEMESTER MGU-UGP (HONOURS) REGULAR **EXAMINATION NOVEMBER 2024**

First Semester

Discipline Specific Core Course

MG1DSCZIM101

INTRODUCTION TO MICROBIAL WORLD

(2024 ADMISSION ONWARDS)

Duration: 1.5 Hours

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

Fill In The Blanks Answer all questions Each question carries 1 mark

1	is the father of Microbiology	[K]	[1]
2	The strong belief that existed among the scientists at that time in the theory of	[E]	[1]
3	The bacteriel cell wall is composed of a layer of	[A]	[2]
4	are proteins found in the outer membrane of certain bacteria and mitichondria.	[U]	[2]
5	Bacteriophage were first discovered by	[S]	[3]
6	The term Bacteriophage literally means	[S]	[3]
7	Hyphae are divided into by septa	[U]	[4]



Maximum Marks: 50

8	Fungi reproduce through	[A]	[4]
9	Protozoa play a crucial role in	[U]	[5]
10	Protozoa reproduce through Binary fission	[An]	[5]

= 10)

Part B Short Questions Answer any 10 questions Each question carries 2 marks

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11	Define Microbiology.	[K]	[1]
12	Define golden age of Microbiology.	[K]	[1]
13	Discuss Koch postulates.	[U]	[1]
14	Describe the morphology of bacteria with diagram.	[U]	[2]
15	Write short note on Gram positive cell wall.	[A]	[2]
16	Define the features of any two internal structure of bacteria.	[U]	[2]
17	Write the history about Bacteriophage.	[U]	[3]
18	Write down the steps involved in the Lytic cycle.	[A]	[3]
19	Write short note on Fungi.	[U]	[4]
20	Distinguish the characteristic features of Ascomycota.	[U]	[4]
21	Explain the important features of Protozoa.	[U]	[5]
22	Explain the significance of cilia, flagella and Pseudopodia in Protozoa.	[U]	[5]

 $(10 \times 2 = 20)$

Part C Short Essay Type Questions Answer 5 questions Each question carries 4 marks

23	Describe the history of Microbiology.	[U]	[1]
24	Explain the experiment which disprove the Theory of spontaneous generation. How?	[U]	[1]
25	Ilustare the ultrastructure of bacteria and their functions.	[A]	[2]

26	Discuss the morphological feature of Bacterial cell wall.	[U]	[2]
27	Explain the detailed note on Bacteriophage.	[U]	[3]
28	Distinguish the characteristic features of Ascomycota and Basidiomycota.	[U]	[4]
29	Discuss the ecological importance of Protozoa.	[U]	[5]

 $(5 \times 4 = 20)$

END OF THE QUESTION PAPER
