2022

MICROBIOLOGY

[Generic]

B.Sc. Sixth Semester End Examination - 2022 PAPER - GE4T

Full Marks: 40

Time: 2 hours

The figures in the right-hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Answer any five:

 $5 \times 2 = 10$

1. What is Viroids and prions?

1+1

2. Write down two name of animal virus culture techniques.

1+1

3. What is enveloped viruses? What are the example of enveloped and non enveloped viruses?

1+1

(Turn Over)

4.	70% alcohol is more effective that 90% for killing bacteria – Why?
5.	Why endospores are highly resistant to heat and radiation?
	2
6.	What are plasmids? 2
7.	Write down the role of interferons. 2
8.	What is binary fission?
	Group-B
Answer any four. $4\times5=20$	
1.	Describe the ultrastructure of gram(-)ve bacterial flagella with diagram.
2.	Write the composition of gram (+)ve bacterial cell wall. 5
3.	What is methanogenesis? Give example of methanogens.
	4+1
4.	Discuss in details about TMV. 5
5.	Differentiate between protoplast and Spheroplast.
	What are the full forms of NAG and NAM. 3+2
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 Classify media – Differentiate between synthetic media and difined media.
 3+2

Group - C

Answer any one:

1×10=10

- Describe the growth curve of batch culture.
 How you cultivate anaerobic organism.
- a) What are lytic and lysogenic cycles? Explain in details.
 Write down the differences between lytic and lysogenic cycles.
 - b) Write down the features of halophiles. Name one cell wall free bacterium. Write down the positive impact of micro-organisms in argriculture. 2+1+2

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