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B.Sc. RNLKWC-/C8T/22

2022

MICROBIOLOGY

[Honours]

B.Sc. Fourth Semester End Examination - 2022
PAPER - C8T

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.

Group - A

An	swer any fine question from the following	: 5×2=10
1.	What is P-element?	2
2.	Define pseudoallele.	2
3.	Wht are LFT and HFT lysates?	1+1
4.	Write down the differences between ge specialized transduction.	neralized and 2
		(Turn Over)

5.	Write down the differences between missense and nonsense mutation. 1+1	.*	
6.	Define 2u plasmid? 2		
7.	Define Penetrance and Expressivity. 1+1		
8.	What is retrotransposon? 2		
	Group - B		
An	swer any four questions:- 4×5=20		
1.	Write a short note on nonsense mutation. 5		
2.	Schematically classify different types of plasmids with one characteristic each. What is multiple allele? 4+1		
3.	Describe the mechanism of specialized transduction process. 2		
4.	Write the replica plating method for the isolation of nutritional auxoprophs.		
5.	a) Write the role of 5'-Bu as mutagen.		
	b) What is chromosomal theory of inheritance? 2+3		
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6. a) What is the role of Ti plasmid during crown-gall disease formation in plants.

b) What is Mu transposon?

4+1

Group -C

Answer any one question:

1. (a) Define transformation? How does it differ from transfection?

- b) Write the mating process between F'×F-
- c) What do you mean by framshift mutation? 5+3+2
- 2. What is gene interaction? Show a cross how typical Mendelian dihybrid ration can be modified by gene interaction? What is non disjunction? Give example.

2+5+2+1

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