This question paper contains 2 printed pages]

## NA-92-2023

## FACULTY OF SCIENCE

## B.Sc. (Third Year) (Fifth Semester) EXAMINATION

## **NOVEMBER/DECEMBER, 2023**

(CBCS/New Pattern)

**MICROBIOLOGY** 

Paper XII

(Microbial Genetics)

(Tuesday, 19-12-2023)

Time: 10.00 a.m. to 12.00 noon

Time—Two Hours

Maximum Marks—40

- N.B. := (i) Answer All questions.
  - (ii) Represent your answers with suitable diagrams if necessary.
  - (iii) Answer to the point.
- Take a detailed account of Griffith experiment to prove DNA as genetic material.

Or

Write on:

(a) Replicon (Cairn's) model

8

(b) Termination of replication.

7

P.T.O.

		Sp. Flygg 1887	ENTRY ES	
WT		( 2 )	NA—92—	-2023
2.	Discuss	s in detail discovery and mechanism of conjugat	ion.	15
		Or	B. A.	
	Write o	on:		
	(a) I	Holiday model	A B	8
	(b) T	Γn elements.	OFFI AND	7
3.	Write s	short notes on (any two):		10
	(a)	E.coli as model genetic organism		
	(b) I	Polynucleotide ligase		
	(c) I	Illegitimate recombination	The sale	
	(d) A	Abortive transduction.		