This question paper contains 2 printed pages]

NA-72-2023

FACULTY OF SCIENCE

B.Sc. (Third Year) (Sixth Semester) EXAMINATION NOVEMBER/DECEMBER, 2023

(New/CBCS Pattern)

MICROBIOLOGY

Paper-XIV

(Molecular Biology) (Friday, 15-12-2023) Time: 10.00 a.m. to 12.00 noon Time—2 Hours Maximum Marks—40 All questions are compulsory. (i)Draw a neat labelled diagram wherever necessary. (ii)(iii)Answer to the point only. What is Genetic Code? Discuss properties of genetic code. 15 Write on: Base analogues and nitrus oxide as chemical mutagenic agents (a) NER. 7 (b)

2. What is Operon? Take a detailed account of inducible regulation in lac operon.

15

P.T.O.

WT	2)		NA—72-	202 3
	Or			
Write on:		AR		

(a) Restriction Endonucleases 8

(b) PBR 322.

3. Write short notes on (any two):

(i) RNA polymerase

(ii) Frameshift mutation

(iii) Attenuation

(iv) Phage as Vector.