This question paper contains 2 printed pages]

NA-06-2023

FACULTY OF SCIENCE AND TECHNOLOGY

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

(New/CBCS Pattern)

BOTANY

Paper-XIV

(Genetics and Plant Breeding)

(Monday, 4-12-2023) Time: 10.00 a.m. to 12	.00 noon
Time—2 Hours Maximum M	arks—40
N.B. := (1) Attempt all questions.	
(2) All questions carry equal marks.	
(3) Draw neat and well labelled diagrams wherever neces	sary.
1. What is gene interaction? Explain complementary gene interact	ion with
suitable example.	15
Or Strain Control of Or Strain	
Explain in brief:	
(a) Allopolyploidy with reference to Raphanobrassica.	8
(b) Turner's syndrome.	7
2. Describe procedure and applications of mutational breeding.	15
ST 339 Or ST	
Describe in brief:	
(a) Steps in hybridization.	8
(b) Clonal selection.	7

P.T.O.

WT	(2)	NA-06-2023

3. Write short notes on (any two):

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- (a) Dihybrid cross
- (b) Downs syndrome
- (c) Objectives of plant breeding
- (d) G.M.S.

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