This question paper contains 2 printed pages]

VA-06-2024

FACULTY OF SCIENCE

B.Sc. (Third Year) (Sixth Semester) EXAMINATION

NOVEMBER/DECEMBER, 2024

(CBCS/New Pattern)

BOTANY

Paper-XIV

(Genetics and Plant Breeding)

(Saturday, 30-11-2024)

Time: 10.00 a.m. to 12.00 noon

Time—2 Hours

Maximum Marks—40

- N.B. := (i) Attempt all questions.
 - (ii) Draw neat and well labelled diagrams wherever necessary.
- What are supplementary genes? Explain supplementary gene interaction with suitable example.

Or

Explain in brief:

- (a) Complete linkage in Drosophila.
- (b) Sex-linked inheritance with reference to colourblindness in man. 7

P.T.O.

8

WT		(2) VA—06-	-2024
2.	What	is pureline selection? Describe process, merits and demerits o	f pure
	line s	selection.	15
		Or Or	
	Descri	ribe in brief:	
	(a)	Plant introduction and acclimatization.	8
	(b)	Applications of Mutational breeding.	7
3.	Write	e short notes on (any two):	10
	(a)	Back cross and test cross	
	(b)	Turner's syndrome	
	(c)	Methods of emasculation	
	(d)	C.M.S.	