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SB—10—2022

FACULTY OF SCIENCE & TECHNOLOGY

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

MAY/JUNE, 2022

(CBCS/New Pattern)

BOTANY

Paper-XIV

(Genetics and Plant Breeding)

(Tuesday, 07-06-2022)

Time : 10.00 a.m. to 12.30 p.m.

Time— 2½ Hours

Maximum Marks—40

- N.B. :—*
- (i) Attempt *all* questions
 - (ii) Figures to the right indicate full marks.
 - (iii) Illustrate your answers with suitable labelled diagram wherever necessary.

1. What is supplementary gene ? Describe supplementary gene action with suitable example. 15

Or

(a) Sex linked inheritance in man with reference to colorblindness. 8

(b) Allopolyploidy in Raphanobrassica. 7

2. Describe selection as method of plant breeding. 15

Or

(a) CMS 8

(b) Objectives mutational breeding. 7

P.T.O.

3. Write short notes on (any two) :

10

- (a) Edward's syndrome
- (b) Back cross and test cross
- (c) Emasculation in hybridization
- (d) Acclimatization.