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GA—09—2023

FACULTY OF SCIENCE AND TECHNOLOGY

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

APRIL/MAY, 2023

(New CBCS Pattern)

BOTANY

Paper-XIV

(Genetics and Plant Breeding)

(Monday, 24-4-2023)

Time : 10.00 a.m. to 12.00 noon

Time—Two Hours

Maximum Marks—40

N.B. :— (i) Attempt *All* questions.

(ii) *All* questions carry equal marks.

(iii) Draw neat and well labelled diagrams wherever necessary.

1. Explain in detail Mendel's laws of inheritance with suitable examples. 15

Or

Describe in brief :

(a) Haemophilia as a sex-linked inheritance. 8

(b) Hexaploid wheat. 7

2. What is Hybridization ? Describe procedure and applications of hybridization. 15

Or

Write notes on :

(a) Plant introduction and acclimatization. 8

(b) Genetic male sterility. 7

P.T.O.

WT

(2)

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3. Explain in brief (any *two*) :

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- (a) Sex determination in man
- (b) Holandric genes
- (c) Merits and demerits of clonal selection
- (d) Objectives of mutational breeding.

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