Roll No. Total No. of Pages : 02

Total No. of Questions: 09

B.Voc. (Agriculture) (Sem.-3) INTRODUCTION TO PLANT BREEDING

Subject Code: BVAG305-18

M.Code: 90878

Date of Examination: 04-01-23

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Write briefly:

- a) Adventive embryony
- b) Mass selection
- c) Epistasis
- d) Meristem culture
- e) Transgressive segregant
- f) Back cross
- g) Multiline
- h) Double haploid
- i) Embryo rescue
- j) Self incompatability

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SECTION-B

- 2. What is distant/wide Hybridization? Explain briefly the various barriers and their solutions in wide hybridization.
- 3. What is Allopolyploidy? Discuss the origin of wheat or brassica in detail.
- 4. Define Mutation. What are the characteristics of mutations and their role in Plant breeding?
- 5. What is Apomixis? Apomixis can be beneficial as well as nuisance to a Plant Breeder, justify with suitable examples.
- 6. What is Hybrid Breeding? Discuss the prospect and status of Rice Hybrids in India.

SECTION-C

- 7. What is Reciprocal recurrent selection? Discuss the methodology employed for RRS and also mention their merits and demerits.
- 8. What is Back cross method? How as a Plant Breeder, you can employ this method in transferring a recessive gene into a well-established variety. Explain it with example of your choice.
- 9. What is Tissue Culture? Describe its various concepts and historical development till date. Mention the significance of micropropagation.

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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