

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Sc. Agriculture (Sem.-6)

BREEDING OF FIELD & HORTICULTURAL CROPS

Subject Code : BSAG-604

M.Code : 74347

Date of Examination : 08-07-22

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. 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 short notes on :

- a) Nutrition quality of Groundnut
- b) Quality Protein Maize
- c) CGMS system in Sorghum
- d) Gene pool of Pearl millet
- e) Bt Cotton
- f) Antiquality components in *Brassica*
- g) Interspecific hybridization in pulses
- h) Golden rice
- i) PGR
- j) IPR.

SECTION-B

2. Briefly discuss the achievements of guava crop improvement through hybridization.
3. Explain hybrid seed production in Chilly.
4. Describe in short, the breeding methods of rose and marigold.
5. Discuss $G \times E$ interactions and their estimations.
6. Elaborate the evolutionary history of wheat. Enlist wild species of different ploidy levels in wheat that are being exploited for useful gene introgressions.

SECTION-C

7. You have been appointed as a maize breeder, so what breeding objectives will you keep in mind while breeding maize and what procedures/strategies will you adopt for development of varieties and hybrids in maize.
8.
 - a) What are the future thrust points of soybean breeding?
 - b) What can be the various, breeding strategies used in sorghum improvement?
9.
 - a) What is ideotype breeding? Discuss ideotype breeding in rice.
 - b) Discuss U's triangle of *Brassica*.

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.