

Roll No.

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Total No. of Pages : 02

Total No. of Questions : 09

B.Sc. (Hons.) (Agriculture) (Sem.-4)

COMMERCIAL PLANT BREEDING

Subject Code : BSAG-419-19

M.Code : 79750

Date of Examination : 10-01-2023

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 briefly :
- a) GATT
 - b) MTA
 - c) Haploid inducer
 - d) NDUS
 - e) PPVFRA
 - f) Nucleus seed
 - g) Double cross hybrids
 - h) Golden rice
 - i) GOT
 - j) IPR

SECTION-B

2. Briefly discuss the advances in quality seed production of onion.
3. Explain hybrid seed production in Chilli.
4. Describe in short, the hybrid seed production in pigeon pea.
5. Discuss DUS testing in details about its utility and applications.
6. Outlay the maintenance breeding in cross pollinated crops.

SECTION-C

7. You have been appointed as a maize breeder, so what procedure will you adopt in variety/hybrid testing release and notification at state and central level.
8. What are PGRs? How important is to conserve our PGRs as a breeder and their methods of utilization? What do you understand from PPVFRA act? List the salient features of this act.
9. What are the different alternative strategies (other than the conventional breeding tools) employed for developing varieties or cultivars? Explain the various tissue culture techniques that can be used for the purpose by citing a relevant example.

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.