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B.Sc (Agriculture) (Sem.-7) **BREEDING OF FIELD CROPS** Subject Code: BSAG-PGB-704

M.Code: 77100

Time: 3 Hrs. Max. Marks: 90

INSTRUCTIONS TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying THREE marks each.
- SECTION-B contains FIVE questions carrying SEVEN AND A HALF (7.5) marks 2. each and students have to attempt any FOUR questions.
- SECTION-C contains THREE questions carrying FIFTEEN marks each and students have to attempt any TWO questions.

SECTION-A

Q1. Write briefly:

- c) CGMS system in Sorghum
 d) Gene pool of Pearl million
 1) Bt C

- e) Bt Cotton
- f) Antiquality components in Brassica
- g) Interspecific hybridization in pulses
- h) Golden rice
- i) NBPGR
- i) CIMMYT and its role in crop improvement



SECTION-B

- Q2. Briefly discuss the inter-varietal and interspecific hybridization in upland cotton.
- Q3. What are the various challenges and achievements in sugarcane breeding?
- Q4. Describe the breeding status for various quality traits in barley (feed, food and malt) in Punjab and India.
- Q5. List various national and international institutes engaged in plant breeding. Discuss the objectives and role of ICRISAT.
- Q6. 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

- Q7. a) Discuss the breeding objectives and procedures for development of varieties and hybrids in maize.
 - b) Discuss breeding objectives, constraints and methods of breeding berseem as a fodder crop.
- Q8. a) What are the future thrust points of soybean breeding?
 - b) What can be the various breeding strategies used in sorghum improvement?
- Q9. a) Discuss the pearl millet breeding programme status in Punjab and India.
 - 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.

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