

sRoll No.

Total No. of Pages : 02

Total No. of Questions : 08

B.Sc. (Agriculture)/B.Sc. Hons. (Agriculture) (2014 to 2018) (Sem.-6)

BREEDING OF FIELD & HORTICULTURAL CROPS

Subject Code : BSAG-604

M.Code : 74347

Date of Examination : 23-06-21

Time : 2 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. Attempt any FIVE question(s), each question carries 12 marks.

1. 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. (12)
2. a) What are the future thrust points of soybean breeding? (6)
b) What can be the various breeding strategies used in sorghum improvement? (6)
3. a) What is ideotype breeding? Discuss ideotype breeding in rice? (6)
b) Discuss U's triangle of Brassica. (6)
4. Elaborate the evolutionary history of wheat and rice. Enlist wild species of different ploidy levels in wheat that are being exploited for useful gene introgressions. (12)
5. As a vegetable breeder what are breeding objectives you will keep in mind while breeding Chilli. What are the different breeding methods you will follow to meet your various objectives, also shed some light on hybrid breeding in Chilli? (12)
6. What are the various biotic stresses on crop plants? Discuss various mechanisms of insect resistance. List wild species that have been used for breeding insect resistance in various crops like Wheat, Gram, Forages and Brassica. (12)
7. 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. (12)
8. a) What is variability, its various types and as a breeder why are you interested in its estimation and the means you will adopt to do so. (7)
b) Describe the breeding status for various quality traits in barley (feed, food and malt) in Punjab and India. (5)

Note: Any student found attempting answer sheet from any other person(s), using incriminating material or involved in any wrong activity reported by evaluator shall be treated under UMC provisions.

Student found sharing the question paper(s)/answer sheet on digital media or with any other person or any organization/institution shall also be treated under UMC.

Any student found making any change/addition/modification in contents of scanned copy of answer sheet and original answer sheet, shall be covered under UMC provisions.