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Seed Certification

SUBJECT CODE NO:- B-2043 FACULTY OF SCIENCE & TECHNOLOGY

B.Sc. T.Y. (Sem-V)

Examination November/December- 2022 Elective Paper Botany Paper- XVI

Plant Breeding and Seed Technology [Time: 1:30 Hours] [Max. Marks:50 "Please check whether you have got the right question paper." N.B. Attempt all questions. i) Illustrate your answer with suitable labeled diagram ii) Describe Methods of selection for crop improvement. Q.1 Write in brief: a) Pure-line Selection. b) Male sterility and its advantage. What is hybridization? Describe the procedure of hybridization in self pollinated crop. 20 Write short note on (any four) a) Colonal Selection b) Dicot Seed c) Domestication d) Foundation Seed Heterosis

Q.3 Multiple choice questions.

- 1) Anthesis is a phenomenon observed in:
 - a) Gynoecium
 - b) Anthers
 - c) Stamens
 - d) Stigma
- 2) Self incompatibility is useful in:
 - a) Selfing
 - b) Crossing
 - c) Hybridisation
 - d) All of the above
- 3) Bulk Selection Method is used in:
 - a) Cross Pollinated Crops
 - b) Self Pollinated
 - c) Often Self Pollinated
 - d) In both self and cross Pollinated
- 4) In genetic Male Sterility
 - a) Nuclear Chromosomes
 - b) Extranuclear Chromosomes
 - c) Both of the Chromosomes
 - d) None of the above
- 5) In three way cross:
 - a) Two inbreeds
 - b) One single cross and inbreed
 - c) Four inbreeds
 - d) Many inbreeds

- 6) Protandry is a phenomenon:
 - a) Androecium mature first
 - b) Gynoecium mature first
 - c) Synchronoise maturity
 - d) Both a & b
- 7) Male Sterility is a tool used for
 - a) Seed production
 - b) Crossing over
 - c) Tagging
 - d) Bagging
- 8) Heterosis is:
 - a) Superiority over the parent
 - b) Increased vigour
 - c) No Superiority
 - d) Balance heterosis
- 9) Certified seed is a progeny of:
 - a) Nucleus seed
 - b) Improved seed
 - c) Foundation and registered seed
 - d) Breeder seed
- 10) Seed dressing is done with
 - a) Fungicide
 - b) Insecticide
 - c) Herbicide
 - d) Both a and b