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### B.Sc.(Agriculture) (2014 to 2018) (Sem.-7) VEGETABLE BREEDING AND SEED PRODUCTION

Subject Code: BSAG-HC705 M.Code: 74838

Time: 3 Hrs. Max. Marks: 60

### **INSTRUCTIONS TO CANDIDATES:**

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks
- SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

### **SECTION-A**

#### 1. Write short notes on:

- N.FirstRanker.com (a) Vegetable Breeding
- (b) Pure line selection
- (c) Mutagens
- (d) Autopolyploidy
- (e) Foundation seed
- (f) Gynoecious
- (g) Clonal selection
- (h) Somaclonal variation
- (i) Hybrid vigour
- (i) National seed corporation



# **SECTION-B**

- 2. Discuss briefly the merits and demerits of mass selection.
- 3. Write short notes on Intergeneric hybridization.
- 4. What is male sterility? List the various type of male sterility found in vegetable crops
- 5. Give the causes of seed deterioration during storage
- 6. Discuss briefly the procedure of seed certification.

# **SECTION-C**

- 7. Write down the origin, floral biology and breeding system of following vegetables (any four)
  - (a) Chilli
  - (b) Onion
  - (c) Cauliflower
  - (d) Pea
  - (e) Muskmelon.
- FirstRanker.com Discuss the problems and remedies associated with vegetable seed production. 8.
- 9 Discuss briefly self incompatibility. Describe the different types of self incompatibility. In which vegetable crop exploit this system for hybrid seed production, discuss.

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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