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Total No. of Questions: 09

B.Sc.(Agriculture) (2014 & Onwards) (Sem.-7) VEGETABLE BREEDING AND SEED PRODUCTION

Subject Code: BSAG-HC705 Paper ID: [74838]

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- 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.

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Q1. Write short notes on:

- a) Pedigree selection.
- b) Recurrent selection.
- c) Hybrid vigour.
- d) Polyploidy.
- e) Mutation.
- f) Nucleus seed.
- g) Certified seed.
- h) Often cross pollinated crops.
- i) Seed Act.
- j) Seed Purity.

1 M-74838 (S2)-901



SECTION-B

- Q2. What are the main aspects of pollination bahaviour of *Cruciferous* vegetables?
- Q3. Name the wild relatives of *Solanaceous* vegetables and discuss their utilization in breeding programmes.
- Q4. What are the advantages of hybridization over selfing and why F1s hybrids are superior to both the parents?
- Q5. Describe the detailed procedure for registration of certified seed production with State Seed Certification Agency.
- Q6. Explain with examples the seed maturity indices of vegetable crops.

SECTION-C

- Q7. Describe in detail the methods of breeding adopted for improvement of Self-pollinating crops.
- Q8. Discuss in detail the procedure you will follow for certified seed production of any variety of Tomato.
- Q9. You have been appointed Potato breeder in a prestigious institute, discuss your approach to develop new variety of Potato having higher yield potential and disease resistance.

2 M-74838 (S2)-901