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Total No. of Pages : 02

Total No. of Questions : 09

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

**BREEDING OF FIELD & HORTICULTURAL CROPS**

Subject Code : BSAG-604

M.Code : 74347

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTIONS TO CANDIDATES :**

1. 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.

**SECTION-A**

**1. Write short notes on :**

- a) Hardy-Weinberg Law
- b) Cross pollination
- c) Somatic hybridization
- d) Chance seedling selection
- e) Gene banks
- f) In-situ conservation
- g) Genetic adaptability
- h) IPR
- i) Patents
- j) Geographical indication (GI)

### **SECTION-B**

2. Write down breeding objectives in wheat crop improvement programme.
3. Write about breeding methods in citrus breeding programme.
4. Write down about caging technique for mango pollination.
5. Write about major genetic transformation in cotton crop.
6. Write about the mechanism of resistance in plants for biotic stresses.

### **SECTION-C**

7. Describe the role of mutation breeding in crop improvement programme.
8. Discuss the methods of plant genetic resources conservation.
9. What is biometrical genetics? Describe its role in crop breeding.

**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.**