Roll No. | | | | | | | | | | | | | **Total No. of Pages: 02**

Total No. of Questions: 09

B.Sc.(Agriculture) (2014 & Onwards) (Sem. – 6)

BREEDING OF FIELD & HORTICULTURE CROPS

M Code: 74347

Subject Code: BSAG-604

Paper ID: [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 note on:

   a) Exotic variety

   b) Cross pollination

   c) Hardy -Weinberg law

   d) Vegetative propagations

   e) Hybrids

   f) IPR

   g) Epistasis

   h) Genetics

   i) Wild species

   j) Self-incompatibility

SECTION B

2. Discuss the breeding objectives of maize and millets crop improvement programme.
3. Describe the methods of in-situ plant genetics resources conservation.
4. Illustrate the various breeding objectives of mango crop improvement programme?
5. Describe the breeding techniques followed in citrus breeding programme.
6. What do you understand by genetics transformation?

SECTION C

7. What is embryo rescue? Discuss the various steps follow for embryo rescue in grapes.
8. What do you understand by PPV & FR? What is the role of PPV and FR in crop improvement?
9. Discuss the role of biometrical genetics in crop breeding.