

**II Year, BSc (Hons.) Agriculture- I CFA, Principles of Seed Technology (1+2)**

**School of Agriculture & Animal Sciences, GRI, Gandhigram**

**Date: 26.02.2022**

**Total Marks: 50**

**I. Answer the following questions**

**(10 x 1= 10)**

1. Define rouging.
2. What is seed multiplication ratio (SMR)?
3. Why off types need to remove from the seed plot?
4. What is supplementary pollination?
5. What is isolation distance?
6. What is seed certification?
7. Genetic purity of breeder seed should be -----
8. Seed multiplication ratio for rice varieties are -----
9. Genetic male sterility (GMS) is used for hybrid seed production in ----- crop.
10. The certified seed lots affixed with ----- colour tag.

**II. Answer the any four of the questions**

**(4 x 5= 20)**

1. A) Describe the seed structure with suitable diagrams  
(OR)  
B) Describe the causes and maintenance of varietal deterioration
2. A) Explain the maintenance of the genetic purity during seed production  
(OR)  
B) Write a note on the seed production techniques for Sorghum varieties
3. A) Describe seed production techniques for Cotton varieties  
(OR)  
B) Assess the seed production techniques in maize open pollinated varieties
4. A) Prepare a note on hybrid seed production techniques for Tomato  
(OR)  
B) Write a note on hybrid seed production techniques for Redgram

**III. Answer any Two of the following**

**(2 x 10=20)**

1. Define seed. Explain the different classes of seed including truthfully labelled seed
2. Explain the commercial hybrid seed production technique for rice
3. Describe the hybrid seed production technique for sunflower

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