

B.Sc. (Ag.) Honours Semester-VI Examination, 2018

Course No: SST-321 (Principles of Seed Technology)

Signature of Centre Superintendent

Roll No. : (in figure) _____ (in words) _____

Student Index No. _____ Regn. No. _____ of _____

Time : 2 Hours

Full marks : 40

Questions are of value as indicated in the margin

Part - I
(Objective and Short Answer Type)
(Use only ball point pen)

Time : 20 minutes

Full marks : 10

- Note:** 1. Answer in question paper itself.
2. Striking, rewriting or overwriting are not allowed in the objective type questions.

1. Fill up the blanks with suitable word(s) (any ten)

0.5×10=5

- (i) VCU stands for _____
- (ii) Tag colour of Certified Seed of rice is _____
- (iii) The toxin produced in terminator technology which kills the embryo is _____
- (iv) The National seed corporation was established in the year _____
- (v) Seed treatment which destroys the surface born organism is called _____
- (vi) _____ is a quick and most efficient seed viability test.
- (vii) Karl Fisher titration method is used for _____ test of the seeds
- (viii) Moisture content required for safe-storage of rice seed is _____
- (ix) The planting ratio of A:R line of rice is _____
- (x) Field inspection, test of physical purity, genetic purity and germination potential is required for _____.
- (xi) Germination percentage of rice seed is _____.
- (xii) _____ is carried out for testing of genetic purity of variety under field condition.
- (xiii) Isolation distance for certified seed is _____ of cotton seed production technique.
- (xiv) The optimum moisture percentage present in maize seed is _____ during storage condition.
- (xv) The samples drawn from the _____ sample is called working sample.
- (xvi) The isolation distance for seed production of bhindi is _____.

2. Answer the following questions (attempt any five questions)

1×5=5

- (a) Routine Test

(2)

(b) PPVFRA

(c) Seed multiplication ratio

(d) Grow out test

(e) Seed Quarantine

(f) Pollen shedder

(g) CGMS Line

(h) Real value of seed

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Part - II
(Descriptive Type)

Time : 100 minutes

Full marks : 30

Questions are of value as indicated in the margin

Answer *any four* questions

3. **Write short notes on (*any five*)** 1.5×5=7.5
- (a) National seed policy 2002
 - (b) Concept of seed quality
 - (c) Egg Floatation Technique
 - (d) Thumb rule of seed longevity during storage
 - (e) Seed Treatment
 - (f) Seed marketing
 - (g) Breeding techniques of hybrid rice
4. **Distinguish between: (*any three*)** 2.5×3=7.5
- (a) Field standards and seed standards
 - (b) Seed production techniques of Tomato and Brinjal
 - (c) Composite and synthetic variety
 - (d) Seed production and crop production
 - (e) Certified seed and Truthfully Labelled seed
5. Describe different steps for seed certification. What are the sources of contaminations in the field of seed crops and briefly explain each source? 4+3.5=7.5
6. What are the objectives of seed processing? Write in brief about different types of mechanical seed drying. Write the advantages and disadvantages of Sun drying. 1.5+2+4=7.5
7. Discuss in brief about the factors affecting varietal deterioration. 7.5
8. Seed production techniques of varietal and hybrid maize. 7.5
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