

5. Explain in brief :
- (a) History of Seed Certification 4
- (b) Importance of Land Requirements 4
- (c) Techniques of Field Inspection 4
- OR**
- (p) Different classes of Seeds 4
- (q) Stages in Seed Certification 4
- (r) Importance of isolation distance 4

6. Describe in brief New Seed Policy 1988. 12

OR

Describe the different techniques used during field inspection of seed production plots. 12

7. Explain in brief :
- (a) Organization of Economic Cooperation and Development (OECD) 4
- (b) Plant Variety Protection 4
- (c) State Seed Committee 4
- OR**
- (p) Management of Seed Certification Programme 4
- (q) Future trends in Seed Certification 4
- (r) Central Sub-Committee on Crop Standard. 4

AQ-703

B.Sc. (Part-II) Semester -IV Examination

SEED TECHNOLOGY (Vocational)

(Seed Testing & Seed Quality Control)

Time—Three Hours]

[Maximum Marks—80

Note :— (1) ALL questions are compulsory.

(2) Draw well labelled diagrams wherever necessary.

1. (A) Fill in the blanks :

- (i) Seed certification means a system of maintaining _____ of seeds. $\frac{1}{2}$
- (ii) The purpose of grow out test is to determine _____ of seed. $\frac{1}{2}$
- (iii) _____ is the distance to be maintained between the seed crop and the contaminant. $\frac{1}{2}$
- (iv) _____ the major function is to certify seeds of any notified varieties. $\frac{1}{2}$

- (B) Choose appropriate alternative (MCQ):

- (i) Breeder's Seed has _____ genetic purity.
- (a) Maximum
- (b) Minimum
- (c) Zero
- (d) None $\frac{1}{2}$

(ii) The moisture content of a sample is _____ in weight when it is dried.

- (a) Increase
 (b) Loss
 (c) Both
 (d) None $\frac{1}{2}$

(iii) Seed quality means the degree of excellence when compared to an _____ standard.

- (a) Acceptable
 (b) Rejectable
 (c) Both
 (d) None $\frac{1}{2}$

(iv) The principal object of a seed vigour test is to differentiate _____ range of quality level of seeds.

- (a) Medium
 (b) High
 (c) Low
 (d) All the above $\frac{1}{2}$

(C) Answer in one sentence :

- (i) What is Sampling ? 1
 (ii) What is Seed Lot ? 1
 (iii) What is Plant Breeder ? 1
 (iv) What is Isolation Requirement ? 1

2. Explain in brief :

- (a) Heterogeneity Test 4
 (b) Role of National Organization in seed testing 4
 (c) Physical Purity Analysis 4

OR

- (p) Importance of Seed Sampling 4
 (q) Layout of seed testing laboratory 4
 (r) Seedling Evaluation 4

3. Describe in brief :

- (a) Importance of Record Keeping 4
 (b) Rapid Test 4
 (c) Storage of Guard Samples 4

OR

- (p) Testing of Seed Vigour 4
 (q) Uniformity in testing results 4
 (r) Culture Purity Testing 4

4. Describe in brief qualification, duties and responsibilities of Seed Inspector. 12

OR

Describe importance and objectives of Indian Seed Act. 12