

B.Sc. Part—III (Semester—VI) Examination

SEED TECHNOLOGY (VOC.)

(Seed Processing, Farm Management and Marketing)

Time : Three Hours]

[Maximum Marks : 80

Note :— (1) All questions carry equal marks.

(2) Draw well labelled diagrams wherever necessary.

1. (A) Fill in the blanks :

(i) _____ is a seed processing machine by which seed separation are made on the basis of specific gravity. ½

(ii) The moisture content of a sample is _____ in weight when dried. ½

(iii) _____ the process of filling, weighing and sewing bags. ½

(iv) _____ person or organisation engaged in breeding and maintenance of varieties of plant. ½

(B) Choose the correct alternative (MCQ) :

(i) Seeds are considered to be physiologically and morphologically mature when they reach _____ dry weight. ½

(a) Minimum

- (b) Maximum
- (c) Both
- (d) None
- (ii) The most commonly used _____ is DDT. $\frac{1}{2}$
- (a) Fungicide
- (b) Bacteriocide
- (c) Insecticide
- (d) None.
- (iii) The price fixed for sale of seed should be reasonable enough so that large number of farmers purchase _____ seeds. $\frac{1}{2}$
- (a) Foundation seeds
- (b) Certified seeds
- (c) Breeder seeds
- (d) None
- (iv) _____ temperature is very effective in maintaining seed quality in storage. $\frac{1}{2}$
- (a) High
- (b) Low
- (c) Medium
- (d) None
- (d) Tillage. 4
- (e) Consideration in farm buildings. 4
- (f) Importance of mixed cropping. 4
7. Comment on :
- (a) Importance of farm record and their use. 4
- (b) Supply and demand price equilibrium of seeds. 4
- (c) Procedure of farm budgeting. 4
- OR**
- (d) Seed market in India. 4
- (e) Acquisition and management of land labour. 4
- (f) Importance of survey of seed market. 4

(C) Answer in **ONE** sentence :

- (i) What is weed ? 1
- (ii) What is magnetic separator ? 1
- (iii) What is seed treatment ? 1
- (iv) What is seed drying ? 1

2. Describe in brief important methods of moisture measurement in seeds. 12

OR

Explain :

- (a) Importance and advantages of seed drainage. 6
- (b) Working of specific gravity separators. 6

3. Explain :

- (a) Mist-o-matic seed treater. 4
- (b) Importance of site selection for seed processing on seed production farm. 4
- (c) Cleaning of roll mills. 4

OR

- (d) Bucket elevators. 4
- (e) Pneumatic Conveyors. 4
- (f) Maintenance and repair of seed processing equipments. 4

4. Comment on :
- (a) Importance of construction of seed storage. 4
 - (b) Maintenance of seed processing records. 4
 - (c) Bager weigher. 4

OR

- (d) Management of seed storage. 4
 - (e) Labelling and Maintaining lot identity. 4
 - (f) Seed pellets. 4
5. Describe :
- (a) Decision making based on production. 6
 - (b) Scope and basic principle in farm management. 6

OR

Explain :

- (c) Cost and Capital investment. 6
 - (d) Most profitable combination of input and output. 6
6. Explain :
- (a) Importance of weed control. 4
 - (b) Multiple Cropping. 4
 - (c) Maintenance of soil fertility. 4

OR