

**B.Sc. (Part—III) Semester—V Examination**  
**SEED TECHNOLOGY**  
**(Seed Pathology and Seed Entomology)**

Time : Three Hours]

[Maximum Marks : 80

**N.B. :—** (1) There are **SEVEN** questions in all.

(2) Question No. **1** is compulsory and carries 8 marks.

(3) Question Nos. **2** to **7** carry equal marks.

(4) Draw neat and well labelled diagrams wherever necessary.

1. (A) Fill in the blanks :

- (i) Plant \_\_\_\_\_ is the scientific study of diseases in plants caused by pathogens.  $\frac{1}{2}$
- (ii) \_\_\_\_\_ are the best pollinators in a building state during the bloom period of the crop.  $\frac{1}{2}$
- (iii) Seed transmitted fungi are those that cause no infection to seed itself but infect \_\_\_\_\_ in the field.  $\frac{1}{2}$
- (iv) \_\_\_\_\_ is a procedure by which it can be determined whether the seed is healthy or diseased.  $\frac{1}{2}$

(B) Choose correct alternative :

- (v) What is meant by CSL ?
  - (a) Central Success Laboratory
  - (b) Central Scientific Laboratory
  - (c) Central Seed Laboratory
  - (d) Central Science Laboratory  $\frac{1}{2}$
- (vi) Seed Act to provide for regulating the quality of seeds for sale was established in :
  - (a) 1950
  - (b) 1966
  - (c) 1970
  - (d) 1961  $\frac{1}{2}$
- (vii) When growth and development of plant are delayed due to unfavourable weather, the virus infections in seed is :
  - (a) Neutral
  - (b) Decreased
  - (c) Increased
  - (d) None of these  $\frac{1}{2}$
- (viii) The pollination takes place by insects :
  - (a) Hydrophily
  - (b) Anemophily
  - (c) Entomophily
  - (d) Chirapterophily  $\frac{1}{2}$

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

- (ix) Storage fungi 1
- (x) Seed certification 1
- (xi) Pollinators 1
- (xii) Insecticides 1

2. Describe :
  - (a) Seed infection 4
  - (b) Impact of storage fungi on human health 4
  - (c) General account of seed borne viruses. 4

**OR**

  - (d) Storage fungi 4
  - (e) Impact of storage fungi on animal health 4
  - (f) Economic significance of seed born diseases. 4
3. Write short notes on :
  - (g) Quarantines of seed health testings 6
  - (h) Procedure of seed treatment 6

**OR**

Give detailed account of equipments used in seed treatment. 12
4. Comment on :
  - (i) Seed certification 4
  - (j) International cooperation in seed pathology 4
  - (k) Seed Act of seed borne diseases. 4

**OR**

  - (l) Post seedling stage inspection 4
  - (m) Tolerance limit of seed borne pathogens 4
  - (n) National cooperation in seed pathology. 4
5. Write short notes on :
  - (o) Insects body and appendages 6
  - (p) Insects pests and their management. 6

**OR**

  - (q) Economic importance according to orders of insects. 6
  - (r) Vegetables and dry fruits. 6
6. Comment on :
  - (s) Preparation of spray solution 4
  - (t) Methods of insect control 4
  - (u) Uses of insect pollinators in crop pollination. 4

**OR**

  - (v) Social structure of honey bees 4
  - (w) Pre-harvest sanitation spray in insect control 4
  - (x) Role of beneficial insects in seed production. 4
7. Describe :
  - (a) Fumigants 4
  - (b) Plant protection equipments 4
  - (c) Rodents and their control. 4

**OR**

  - (d) Impact of seed protectants on seed viability 4
  - (e) Detection of infestation 4
  - (f) Types of seed equipments. 4