

4. Describe in brief methods of seed health testing.

OR

What is seed act ? Describe in brief seed act in relation to seed borne diseases. 12

5. Explain :—

- (a) Important insect pest of Mung. 4
 (b) Economic important insects. 4
 (c) Classification of insects. 4

OR

- (p) Damages caused by insect pest to pigeonpeas. 4
 (q) Life cycle of insect. 4
 (r) Management of insect pest of sorghum. 4

6. Explain :—

- (a) Role of insects in seed production. 4
 (b) Importance of safe application of pesticides. 4
 (c) Physical method of insect control. 4

AR – 588

Fifth Semester B. Sc. (Part – III) Examination

SEED TECHNOLOGY (Vocational)

Seed Pathology and Seed Entomology

P. Pages : 5

Time : Three Hours]

[Max. Marks : 80

Note : (1) All questions are compulsory.
 (2) Draw well labelled diagrams wherever necessary.

1. (A) Fill in the blanks of the following.

- (i) The main objective of seed certification is to ensure — and quality seeds to purchaser. $\frac{1}{2}$
 (ii) Simplest kind of — test for seed is visual observation. $\frac{1}{2}$
 (iii) Fungal spores are disseminated largely by —. $\frac{1}{2}$
 (iv) — is the optimum temperature for insect development. $\frac{1}{2}$

(B) Choose the correct alternative (MCQ)

(v) Treated seeds are stored at — temperature

- (a) Normal (b) Low
(c) High (d) None $\frac{1}{2}$

(vi) — enters host tissue only through film of water.

- (a) Virus (b) Fungi
(c) Bacteria (d) None $\frac{1}{2}$

(vii) DDT is most commonly used —

- (a) Bactericide (b) Fungicide
(c) Insecticide (d) None $\frac{1}{2}$

(viii) Spoon method of seed sampling is only permitted for — seeded species.

- (a) Large (b) Small
(c) Medium (d) None. $\frac{1}{2}$

(C) Answer in **one** sentence :—

(ix) What is sampling ? 1

(x) What is meant by safe application of pesticides ? 1

(xi) What is the purpose of testing of seed health ? 1

(xii) What is seed lot ? 1

2. Describe in brief seed borne diseases and their economic significance.

OR

What are storage fungi ? Describe in brief impact of storage fungi on animal and human health. 12

3. Explain :—

(a) Procedure of seed treatment. 4

(b) Influence of temperature on seed borne diseases. 4

(c) Mechanical divider method of Sampling. 4

OR

(p) Effect of humidity on seedborne diseases. 4

(q) Management of seed crop. 4

(r) Equipments required for seed treatments. 4

OR

- (p) Chemical control of insects. 4
- (q) Bee keeping. 4
- (r) Importance of insecticide formulation. 4

7. Explain :—

- (a) Importance of control of Rodents in field. 4
- (b) Seed protectants and their impact on seed viability. 4
- (c) Factors influencing on insect pest in storage. 4

OR

- (p) IPM strategies for important pest plant protection equipments. 4
- (q) Methods of fumigation. 4
- (r) Types of insect pest in storages. 4



