

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

SEED TECHNOLOGY (Vocational)

(Seed Pathology and Seed Entomology)

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 of the following :

- (i) The most common pathological test for seed is by way of _____.
- (ii) _____ of seed lots from bin is done by bin sampler.
- (iii) The most commonly used insecticide is _____.
- (iv) The main objective of seed certification is to know _____ of seed to purchaser.

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(B) Choose the correct alternatives :

- (v) In case of _____ seed weathering damages are more.
 - (a) Linseed
 - (b) Soybean
 - (c) Sunflower
 - (d) None
- (vi) In godowns ventilation is used to _____ seed temperature.
 - (a) Induce
 - (b) Maintain
 - (c) Reduce
 - (d) None
- (vii) One of the problems of _____ control of insects is adverse effect on viability of seeds.
 - (a) Physical
 - (b) Mechanical
 - (c) Chemical
 - (d) None
- (viii) _____ is one of the most important factor in spore dissemination.
 - (a) Light
 - (b) Wind
 - (c) Moisture
 - (d) None

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

(ix) What is safe application of Pesticides ?

(x) What is the aim of seed storage ?

(xi) What is seed treatment ?

(xii) What is Economic Entomology ? 4

2. Comment on :

(a) Economic importance of seed borne diseases. 4

(b) Mechanism of seed transmission. 4

(c) Impact of storage fungi on human health. 4

OR

(m) Entry point of seed infection. 4

(n) Impact of storage fungi on animals. 4

(o) Seed borne fungi. 4

3. Discuss in detail the effect of light, temperature and humidity on seed borne diseases. 12

OR

Discuss :

(a) Seed Crop Management. 6

(b) Procedure of sampling for seed health testing. 6

4. Discuss in detail National and International cooperation in Seed Pathology. 12

OR

Discuss :

(a) Seed act in relation to seed borne diseases. 6

(b) Methods of seed health testing. 6

5. Comment on :
- (a) Orders of insects of economic importance. 4
 - (b) Important pests of dry fruits. 4
 - (c) General body plan of insects. 4
- OR**
- (m) Appendages of insect. 4
 - (n) Important insect pest of pigeon pea. 4
 - (o) Economic importance of pest of paddy. 4
6. Comment on :
- (a) Safe application of Pesticide. 4
 - (b) Physical methods of insect control. 4
 - (c) Bee Keeping. 4
- OR**
- (m) Role of insects in seed production. 4
 - (n) Formulation of insecticides. 4
 - (o) Preparation of spray solution. 4
7. Comment on :
- (a) IPM strategies for important pests. 4
 - (b) Equipments used for plant protection. 4
 - (c) Rodents and their control. 4
- OR**
- (m) Maintenance of seed godowns. 4
 - (n) Detection of infestation. 4
 - (o) Impact of seed protectants on seed viability. 4

