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4. Discuss in brief.
- (a) Concept of variety variation. 6
- (b) Seed legislation. 6

OR

- (p) Qualification, duties and responsibilities of seed inspector. 6
- (q) Seed quality control systems. 6

5. Comment on :—

- (a) Principles of field inspection. 4
- (b) Seed certification standards. 4
- (c) Phases of seed certification. 4

OR

- (p) Agencies of seed certification. 4
- (q) Land requirements and isolation distance. 4
- (r) Concept and History of seed certification. 4

6. Discuss techniques of field inspection of seeds of pulses and oil seeds.

Fourth Semester B. Sc. (Part – II) Examination

SEED TECHNOLOGY

(Vocational)

(Seed Testing and Seed Quality Control)

P. Pages : 5

Time : Three Hours]

[Max. Marks : 80

- Note :** (1) All questions carry marks as indicated.
(2) Draw well labelled diagrams wherever necessary.

1. (A) Fill in the blanks.

- (i) Seed certifying agency should be ——— of regulatory work.
- (ii) Indian seed act was passed by parliament in ———.
- (iii) ——— Seed help cultivator to obtain maximum yield.
- (iv) ——— is emergence and development of seedling. 2

(B) Choose the appropriate alternative (MCQ)

- (v) Sampling of seed lot from been is done by ——— sampler.
- (a) bin (b) Tin

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(c) Rim (d) None

(vi) ——— method is suitable for all kinds of seeds.

(a) Spoon method (b) Random cups
(c) Mechanical divider (d) None

(vii) As per ISTA the seedling showing following defects are grouped into abnormal seedling.

(a) Deformed seedling
(b) Damped seedling
(c) Decayed seedling
(d) All of these

(viii) The principle object of seed vigour test is to differentiate range of ——— level.

(a) Quantity (b) Quality
(c) Both of them (d) None 2

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

(ix) Where the central seed testing laboratory is located ?

(x) What is mean by pure seed ?

(xi) What is seed lot ?

(xii) What is seed testing ? 4

2. Comment on the following :—

(a) Layout of seed testing laboratory. 4
(b) Heterogeneity test 4
(c) Physical purity analysis. 4

OR

(p) International organizations of seed testing. 4
(q) Handling and testing of the seed samples. 4
(r) Maintenance of seed testing equipments. 4

3. Comment on :—

(a) Testing of plated seeds. 4
(b) Record keeping and reporting of results. 4
(c) Storage of guard samples. 4

OR

(p) Seed vigour testing. 4
(q) Rapid test for seed quality determination. 4
(r) Seed testing in relation to seed act and marketing. 4

OR

Discuss seed production techniques of potato and vegetables. 12

7. Comment on :—

- (a) Management of seed certification programme. 4
- (b) Seed certification schemes. 4
- (c) Plant breeders right. 4

OR

- (p) Seed Quality Control Organization, India. 4
- (q) Organization of economic co-operation and development OECD. 4
- (r) Future trends in seed certification. 4



