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B.Sc. (Part-II) Semester-IV Examination

SEED TECHNOLOGY

(Seed Testing and Seed Quality Control)

Time : Three Hours]

[Maximum Marks : 80

Note :- (1) There are seven questions in all.

- Question No. 1 is compulsory and carries 8 marks.
- (3) Question Nos. 2 to 7 carry equal marks.
- (4) Draw well labelled diagrams wherever necessary.
- 1. (A) Fill in the blanks :
 - (i) The certifying authority is entitled to full information about the techniques used by the _____ to develop and maintain the variety.
 - (ii) Field _____ are perform by certification on officials on all fields for which applications are submitted. ½
 - (iii) Seed certifying agency should be _____ of regulatory work. 1/2
 - (iv) In accordance with the ISTA rules a minimum number of ______ seeds is required for germination test. 1/2

(B) Choose the correct alternatives (MCQ) :

| (v) | seed crops are inspected for isolation from other fields that represent potential | | | |
|------|---|----------------------------|----------------------|---|
| | for a | outcrossing. | 1/2 | |
| | (a) | Self pollinated | (b) Cross pollinated | |
| | (c) | Neutral | (d) None | |
| (vi) | The | Indian Seed Act was passed | by Parliament in 1/2 | : |
| | (a) | 1970 | (b) 1950 | |
| | (c) | 1966 | (d) 1981 | |

(vii) _____ method is suitable for all kinds of seeds.

- (a) Random cup method (b) Spoon (c) Mechanical divider (d) Field
- (viii)Central Seed Laboratory is situated at :
 - (a) New Delhi (b) Kolkata
 - (c) Nagpur (d) Madras

(C) Write in one sentence :

- (ix) What is meant by AOSCA ?
- (x) What is the purpose of seed certification ?
- (xi) Which seed certification board is to deal with all problems related to seed certification ?

(xii) Why field inspection is needed ?

(Contd.)

1/2

1/2

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| 2. | (a) History of seed testing. | 4 |
| | (b) Heterogeneity test. | 4 |
| | (c) Seedling evaluation. | 4 |
| | OR | |
| | (d) Seed testing equipments. | 4 |
| | (c) Physical purity analysis. | 4 |
| | (f) Moisture and germination testing. | 4 |
| 3. | Comment on : | |
| | (a) Seed vigour testing. | 4 |
| | (b) Storage of guard samples. | 4 |
| | (c) Rapid test. | 4 |
| | OR | |
| | (d) Culture purity testing. | 4 |
| | (e) Record keeping and reporting of results. | 4 |
| | (f) Testing of plated seeds. | 4 |
| 4. | Give detail account of seed quality control systems. | 12 |
| | OR | |
| | Define seed quality and explain in detail physical purity and genetic purity concepts. | 12 |
| 5. | Define seed certification. Explain in detail classes of certified see is. | 12 |
| | OR | |
| | Describe in detail : | |
| | (a) Phases of seed certification. | 6 |
| | (b) Standards of seed certification. | 6 |
| 6. | Comment on : | |
| | (a) Sampling of seed quality. | 4 |
| | (b) New Seed Policy (1988). (c) Testing of genetic quaity. | 4 |
| | (c) Testing of genetic purity. OR | 4 |
| | (d) Technique of field inspection of seed production. | 4 |
| | (e) Inspection at harvesting. | 4 |
| | (f) Interstate seed certification. | 4 |
| 7. | Comment on: | - |
| | (a) Function of Central Seed Committee. | 4 |
| | (b) OECD. | 4 |
| | (c) Future trends in seed certification. | 4 |
| | OR | |
| | (d) Plant Breeders Right. | 4 |
| | (e) Seed Certification Scheme. | 4 |
| | (f) Central Seed Certification Board. | 4 |
| | | |