

21415

3 Hours / 100 Marks

Seat No.

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- Instructions :** (1) All Questions are *compulsory*.
 (2) Answer each next main Question on a new page.
 (3) Figures to the right indicate full marks.
 (4) Assume suitable data, if necessary.

Marks**1. Answer any TEN :****10 × 2 = 20**

- Name seed processing industries in India.
- Why is seed cleaning necessary ?
- State 'uses' of 'length separator'.
- Explain function of a 'stoner'.
- Draw a labelled 'diagram' of a 'roll mill'.
- Write utility of a 'magnetic separator'.
- State 'uses' of 'air separator'.
- State 'factors' affecting electro-static separation.
- State 'uses' of a 'spiral separator'.
- Write probable 'causes' of 'discrepancies' of seed test results.
- Name equipments which a seed testing laboratory should have.
- Explain meaning of 'field standards'.
- Write 'care' required to be taken in seed 'storage'.
- State 'importance' of 'demand forecast'.

2. Answer any FOUR :**4 × 4 = 16**

- Explain working 'principle' of 'air screen cleaner'.
- Write 'operating sequence' of a specific gravity separator.
- Explain 'factors' affecting magnetic cleaning of seeds.
- Name 'types' of 'polishes'.
 - State 'uses' of polishes.
- Describe 'working' of a 'slurry treater'.
- Describe 'working' of a 'chain conveyor'.

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- 3. Answer any FOUR :** **4 × 4 = 16**
- (a) Explain 'principle' of 'seed processing'.
 - (b) Describe a specific gravity separator.
 - (c) Describe 'working' of a 'roll-mill'.
 - (d) Draw a labelled diagram of a 'vibrating separator'.
 - (e) Write 'specific standards' for any one crop.
 - (f) Write 'constructional features' of a good 'warehouse'.
- 4. Answer any FOUR :** **4 × 4 = 16**
- (a) Describe 'working' of 'Bukhorn machine'.
 - (b) Describe method of 'adjustment' of a cylindrical screen separator.
 - (c) Write 'constructional features' of an 'inclined draper'.
 - (d) Explain 'operating principle' of an electronic 'colour separator'.
 - (e) Explain 'precautions' to be taken in 'seed treatment'.
 - (f) Describe 'use' of a 'bucket elevator'.
- 5. Answer any FOUR :** **4 × 4 = 16**
- (a) How is air screen cleaner, 'installed' ?
 - (b) Write 'safety precautions' to be taken while operating 'specific gravity separator'.
 - (c) Explain 'operating principle' of a 'pneumatic separator'.
 - (d) Describe an 'electronic separator'.
 - (e) Write stepwise 'procedure' to determine 'moisture content' of seeds.
 - (f) Write about 'seed distribution system'.
- 6. Answer any FOUR :** **4 × 4 = 16**
- (a) State 'factors' on which 'screen effectiveness' and 'cleaning efficiency' depend.
 - (b) Write 'constructional features' of a 'disc separator'.
 - (c) Write 'operating principle' of a 'stoner'.
 - (d) Describe 'working' of an 'scalping aspirator'.
 - (e) Why is seed treatment, needed ?
 - (f) Compare Semiautomatic and automatic weighing machine.
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