



(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 180854

Roll No.

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B. Tech.

(SEM. VIII) THEORY EXAMINATION, 2014-15
SEED PROCESSING

Time : 3 Hours]

[Total Marks : 100

Note : Attempt all questions.

SECTION A

1 Attempt all short answer questions : **2×10=20**

- (a) Define "seed". What do you mean by hybrid seed ?
- (b) Why seed cleaning is a necessary operation ?
- (c) What do you understand by natural drying of seed ? Name few processes of natural drying.
- (d) What is the function of stoner ?
- (e) Enumerate the purpose of seed treatment.
- (f) Name the information which a tag flapper contain during the tagging of seed packaging.

- (g) Name any four precautions kept in mind during seed treatment.
- (h) What are the requirements of good storage structure ?
- (i) "Seed conveyor" is an important machine in the seed industry. Comment in brief.
- (j) Differentiate between conveyor and an elevator.

SECTION B

2 Attempt any three parts of the following : **10×3=30**

- (a) Explain the construction and working of a bucket conveyor.
- (b) With the help of a neat and labelled diagram explain the cylindrical grain bin for storage of grain.
- (c) Discuss the types of seed treatment. What are the ISI recommendations for seed treatment ?
- (d) Write short note on the following :
 - (i) Magnetic separator
 - (ii) Colour separator.
- (e) Describe the status and scope of development of seed industry in India.

SECTION C

3 Attempt all parts of the following : 10×5=50

- (a) What is the principle of seed processing ?
Mention the seed acts followed by seed industry established in India.

OR

For what purposes a Debearder machines are used ? Explain.

- (b) Explain different types of graders used. Why are they need maintenance for proper operation in the seed industry ?

OR

Discuss "Seed requires processing before storage". Explain how genetic changes occur during seed storage.

- (c) Write short note on the following :

- (i) Seed packaging
- (ii) Stitching and bag closing machine.

OR

Explain seed treatment. Discuss its types commonly used in the seed production.

- (d) What are the changes occurs in seed quality during storage ? How Dehumidifiers controls the temperature and moisture of the storage structure ?

OR

Enumerate the cap storage of hermetically sealed storage. Describe briefly the farmer's right in relation to healthy seed.

- (e) Describe the construction and working of belt conveyor.

OR

Discuss the construction and working of screw conveyor.
