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**B TECH**  
**(SEM-V) THEORY EXAMINATION 2020-21**  
**SEED PROCESS ENGINEERING**

Time: 3 Hours

Total Marks: 100

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

## SECTION A

1. Attempt all questions in brief. 2 x 10 = 20

a.	What is the importance of seed processing?
b.	Differentiate between freeze drying and foam mat drying?
c.	What do you mean by seed processing?
d.	Differentiate between types of moisture.
e.	Advantages and disadvantages of artificial drying
f.	What are artificial seeds?
g.	Enlist types of seed dryers.
h.	What are certified seeds?
i.	Explain RH.
j.	Enlist the various types of conveying devices.

## SECTION B

2. Attempt any three of the following: 10 x 3 = 30

a.	Explain the principles of seed processing. Also explain the method of preparing seed for processing.
b.	Discuss different types of seed graders.
c.	Explain the need for controlling temperature and RH inside a store house.
d.	
e.	Briefly explain the salient features and power requirements of screw conveyers.

## SECTION C

3. Attempt any one part of the following: 10 x 1 = 10

(a)	Explain the natural & mechanical dryers for seeds. What are the different types of seed dryers? Explain.
(b)	What are the objective & concept of seed certification? What are the minimum seed certification standards for breeder's seed

4. Attempt any one part of the following: 10 x 1 = 10

(a)	Explain the construction and operation of rotary drier.
(b)	What is seed treatment? Explain the different types of seed treatment.

5. Attempt any one part of the following: 10 x 1 = 10

(a)	Define seed packaging. Explain the factors to be consider during selection of packing material. Also explain stitching and bag closing machines.
(b)	Define refrigeration load and explain how temperature and relative humidity are controlled inside a store house.

6. Attempt any one part of the following: 10 x 1 = 10

(a)	Explain CAP storage of hermetically sealed storages.
(b)	Explain drying-cum-storage bins and their design.

7. Attempt any one part of the following: 10 x 1 = 10

(a)	List out the principles to be considered before selecting a conveying system and give a detailed account on belt conveyers idlers
(b)	List out and explain various compounds of bucket elevator with neat sketches.