

Cat. No: Engg.3103

Marks: 50.00

Title: Protected cultivation and post harvest Technology (1+1)

Time: 2 hours

I Answer all questions

(10 x1=10)

State whether the following statements are true or false

1. Winnowing uses air for separating chaff and impurities.
2. Batch type dryers are non mixing type dryers.
3. Tensile force is not applied in size reduction process.
4. The green house is used for heating.
5. The sieve with oblong opening is specified with length and breadth

Fill up the blanks

6. ----- type of threshing drum is suitable for threshing of paddy
7. Most common cladding material used for green house construction is-----
8. Specific gravity separation is done based on -----

Define the following

9. Freezing injury
10. Blanching

II Write short notes on any FIVE questions

(5 x 2=10)

1. Name different construction materials used in traditional and low cost green houses.
2. What do you mean by deep bed drying?
3. Write a note on disc separator.
4. Write about the equipments used in greenhouses.
5. Differentiate between constant and falling rate drying process.
6. Explain the working of a roller mill with sketch.
7. Explain the different types of perforated metal screens used for cleaning of grains

III Write short essay on any FIVE questions

(5x 4=20)

1. Explain the design criteria of green house for heating purpose
2. Explain the direct and indirect methods of determination of moisture content.
3. Explain the classification of green houses based on their structure
4. Name the different size reduction equipments and working of ball mill.
5. Explain passive and active type greenhouses

6. Explain the different types of dryers.
7. Write about the methods to control light and temperature in green houses.

IV Write essay on any ONE

(1 x 10=10)

1. Layout various types of threshers used for different crops. Explain the construction and working of a paddy thresher.
2. Explain the factors to be considered while selecting a site for a green house. What are the different types of greenhouses?