



KERALA AGRICULTURAL UNIVERSITY
B.Sc. (Hons.) Ag. 2015 Admission
V Semester Final Examination-March-2018

Engg.3103

Protected Cultivation and Post Harvest Technology (1+1)

Marks:50
Time: 2 hours
(10x1=10)

I Fill in the blanks

- 1 A green house attached to an existing building is called -----
- 2 The life span of a polyethylene film as green house covering material can be increased by adding ----- during its manufacture.
- 3 The vertical member of a green house which supports the structure is called -----
- 4 Indented cylinder separator separates seeds based on their -----
- 5 LSU dryer is a ----- type dryer.

State True or False

- 6 Generally, the volume of air held in a green house can be lost once in every 20 minutes in a double layer polyethylene film green house
- 7 Rittinger's law states that the energy required for size reduction is proportional to change in surface area of the piece of food
- 8 The relationship between equilibrium moisture content and relative humidity was put forward by Henderson
- 9 Pusa bin is an improved bag storage structure
- 10 ISO stands for Indian Standards Organisation

II Write Short notes on ANY FIVE of the following

(5x2=10)

- 1 Green house effect
- 2 Ridge and furrow type green house
- 3 Shading nets
- 4 Types of threshing cylinders
- 5 Equilibrium moisture content
- 6 Merits and demerits of bag and bulk storage structures
- 7 Critical speed of a ball mill

III Answer ANY FIVE of the following

(5x4=20)

- 1 With figure explain a fan and pad cooling system in a green house.
- 2 Explain the application of microprocessors and computers in green house.
- 3 Explain in brief various green house irrigation systems.
- 4 With figure explain a fluidised bed drier.
- 5 Indian standards in food quality assessment.
- 6 With figure narrate the working of a hammer mill.
- 7 Briefly explain a cyclone separator

IV Write an essay on ANY ONE of the following

(1x10=10)

- 1 Explain with figure the construction of a pipe framed green house.
- 2 What are the effects of different factors on the storage of grains? Explain various bulk storage structures for grains
