



KERALA AGRICULTURAL UNIVERSITY
B.Sc.(Hons.) Ag. (2016 Admission)
V Semester Final Examination-February -2019

Engg.3103

Protected Cultivation and Secondary Agriculture (1+1)

Marks: 50
Time: 2 hours

I Fill in the blanks (10x1=10)

- 1 The classification of commodities into various fractions depending on commercial value and usage is known as
- ✓2 Cyclone separator is used for separating
- ✓3 Destoner is used for separating stones from seed on the basis of
- 4 The moisture content of 60% wb is equal to %db.
- ✓5 Most effective cooling system used in a green house is

Define the following

- 6 Effectiveness of screen.
- 7 Constant drying rate period.
- 8 Heat utilization factor.
- 9 GAP.
- 10 Greenhouse effect.

II Write Short notes on ANY FIVE of the following (5x2=10)

- ✓1 Vibratory screen.
- 2 Bound, unbound and free moisture.
- 3 Screw conveyor.
- 4 Bukhari type storage structure.
- ✓5 Differentiate between shallow bed drying and deep bed drying.
- 6 Truss framed green house.
- 7 Fog cooling system.

III Answer ANY FIVE of the following (5x4=20)

- 1 Working of a specific gravity separator.
- ✓2 Seven principles of HACCP
- 3 Environmental/climatic parameters affecting plant growth in a green house.
- 4 Temperature and moisture changes in storage structure.
- ✓5 Working of a cyclone separator with a neat sketch.
- ✓6 Working of a fan and pad cooling system with a neat sketch.
- 7 Methods of forced ventilation.

IV Write an essay on ANY ONE of the following (1x10=10)

- ✓1 Which are the various cleaners and separators used in modern food industry? Explain any two using neat sketch.
- 2 List out the various types of green house. Explain the green houses based on shape using neat sketch.
