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220145A

**Sem. 4 Branch : Agri. Engg.**  
**Subject : Green House Tech.**

Time : 3 Hrs.

M.M. : 60

**SECTION-A**

**Note: Multiple type Questions. All Questions are compulsory. (6x1=6)**

- Q.1 Global warming is caused by (CO3)  
a) Methane gas                      b) Nitrogen dioxide  
c) Greenhouse gases              d) Hydrogen
- Q.2 Greenhouse effect which is causing an increase in atmospheric temperature is mainly due to the (CO2)  
a) Oxygen                              b) Nitrogen  
c) Carbon dioxide                  d) Sulphur
- Q.3 What should be the direction of a greenhouse (CO3)  
a) East of South                      b) South to North  
c) East to West                      d) North to South
- Q.4 The commercial utilization of greenhouses in India started from (CO1)  
a) 1986                                  b) 1988  
c) 1978                                  d) 1990
- Q.5 Light intensity is uniform throughout the green house in (CO2)  
a) Rigid panel greenhouse  
b) Glass greenhouse

- c) Plastic film greenhouse
  - d) None of these
- Q.6 Which of the following is the most useful irrigation system in greenhouse? (CO4)
- a) Drip irrigation system
  - b) Flood irrigation system
  - c) Sprinkler irrigation system
  - d) All of these

#### Section-B

**Note: Objective/Completion type Question. All questions are compulsory. (6x1=6)**

- Q.7 Which crop was the green house used for the first time. (CO1)
- Q.8 A free standing greenhouse should have its long axis \_\_\_\_\_ to the wind direction. (CO2)
- Q.9 On the basis of cooling system the greenhouses may be classified as. (CO1)
- Q.10 High grade panels have long life even up to \_\_\_\_\_. (CO2)
- Q.11 Enlist common type of curved roof greenhouses. (CO1)
- Q.12 ASCE stands for \_\_\_\_\_. (CO5)

#### Section-C

**Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)**

- Q.13 List out greenhouse types based on covering materials. (CO2)
- Q.14 Explain the parameters that to be considered for greenhouse site selection. (CO2)

- Q.15 Elaborate the micro-irrigation components. (CO4)
- Q.16 Based on shape how would you classify green house? (CO1)
- Q.17 State the term protected cultivation. (CO1)
- Q.18 What is/are the scopes of greenhouse technology? (CO1)
- Q.19 State the term liquid hydroponics and aggregate hydroponics. (CO4)
- Q.20 What do you understand by the greenhouse sanitation? (CO5)
- Q.21 Describe the ventilation and evaporative cooling system. (CO3)
- Q.22 Discuss about greenhouses for active cooling and for active heating. (CO2)

#### Section-D

**Note: Long answer type Question. Attempt any two questions out of three Questions. (2x8=16)**

- Q.23 Describe the various environmental factors in greenhouse environment. (CO5)
- Q.24 What is greenhouse effect? Also explain the mechanism of greenhouse effect. (CO1)
- Q.25 Explain the advanced protected agricultural systems in detail. (CO2)