**Fill in the blank**

1. Minimum size of green house is …………………………………….
2. The ideal central height of large size green house is……………………………..
3. Desirable level of temperature inside the green house ……………………………
4. ………………………….climatic factor is needed for quality of plant.
5. ……………………type foundation seen in pipe framed poly house.
6. Radiation heat loss occurs in ……………… covering materials of the greenhouse.
7. Durability of fiber glass is…………………….
8. Foundation pipes made up of…………………………
9. ……………… watering is apply for crop having high density.
10. Efficiency of drip irrigation system is……………………
11. Grains are spread …………………………………….deep in the flat bed dryer.
12. Temperature inside the deep bed dryer is maintained ……………………………..
13. Recommended speed of belt conveyor is ……………………………
14. Specific heat of dry grain ranges between ………………………….
15. ……………………is the unit of thermal conductivity
16. Capacity of bucket elevator is………………………..
17. ……………………is the most efficient method of irrigation.
18. For construction of green house about ………………………… of the expenses are fixed cost.
19. The depth of rocks present in rock bed storage is …………..
20. Durabilty of pokythene is…………………….

**Define the following (Any five):**

1. Protected cultivation

2. Lean-to type greenhouse

3. Shade net greenhouse

4. Hoops

5. Water storage system of greenhouse

6. Conduction heat loss in greenhouse

7. Roundness ratio

8. Drag Coefficient

9. Sphericity

10. Screw conveyor

11. Even span green house

**Match the following:**

1. Brinjal A. Obovate
2. Pea B. Ovate
3. Mango C. Conic
4. Rice D. Round
5. Carrot E. Elliptical

F. Oblique

**Answer the following in short**

1. Fan-pad cooling system.
2. Convection tube heat distribution system.
3. Site selection for construction of a green house.
4. Working principle of solar heating system.
5. Write the difference between drying and dehydration.
6. Write down the selection criteria of conveyors.
7. Define thermal conductivity with its mathematical expression.
8. Describe about natural ventilation inside a green house

**Long questions**

1. What is the definition of greenhouse?
2. What is the greenhouse effect and advantages of green houses?
3. Briefly describe the types of greenhouses - greenhouses based on Shape, utility, construction, covering materials and cost, shade nets.
4. How Plant response to greenhouse environments with light, temperature, relative humidity, ventilation and carbon dioxide?
5. What are the Equipment required for controlling green house environment – summer cooling and winter cooling, natural ventilation, forced ventilation and computers?
6. How to do Planning of green house facility?
7. What are Materials for construction of green houses?
8. Describe the Design criteria and constructional details of greenhouses.
9. What is Greenhouse heating and distribution systems?
10. What are the Irrigation systems used in greenhouses-rules of watering, hand watering, perimeter watering, overhead sprinklers, boom watering and drip irrigation.
11. Write the different procedure of threshing and types of threshers?
12. Write the working principle of different thresher with sketch?
13. Write down the post harvest technologies for groundnut, maize and caster?
14. What are the different drying processes?
15. Explain the working of grain dryers?
16. Different types of greenhouse based on shape and covering materials.
17. Write down the steps for construction of a minimum size of naturally ventilated poly house.
18. Briefly write down different types of grain dryers with diagram.
19. Differentiate between conveyor and elevator and describe about the belt conveyor and bucket elevator
20. How to build a low cost green house in your area?