



Field: Agri-production

TEST

Greenhouse technology



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Test

1. One of the most important advantages of glass greenhouse is:
 - a. Low thermal radiation transmittance.
 - b. Low weight.
 - c. Low visible radiation transmittance.
2. One of the most important advantages of tunnel greenhouse is:
 - a. Very good ventilation.
 - b. Good wind resistance
 - c. Low visible radiation transmittance.
3. Cooling system is usually used:
 - a. In Winter time.
 - b. In summer time.
 - c. At night.
4. The evaporation cooling systems are based on:
 - a. The conversion of latent heat into sensible heat by means of evaporation of water Low weight.
 - b. Condensation of water in the greenhouse cover.
 - c. The conversion of sensible heat into latent heat by means of evaporation of water.
5. Select the correct affirmation:
 - a. High pressure fog systems produce droplets of 10-30 μm .
 - b. Low pressure fog systems produce droplets with diameter higher than 10-30 μm .
 - c. High pressure fog systems produce droplets of 200 μm .
6. In hot air generators of indirect combustion:
 - a. The exhaust is injected directly to the greenhouse
 - b. The exhaust is removed from the greenhouse through an exhaust stack.
 - c. It is based on the circulation of warm water by pipelines.

7. In heating systems by warm water:
 - a. The warm air distribution system is based on the circulation of cold water by pipelines.
 - b. The pipelines forming the system are made of plastic or metal.
 - c. This system use irrigation pipelines for warm water distribution.
8. Carbon dioxide (CO₂) enrichment must be used:
 - a. At night.
 - b. In hot weather when the greenhouse is vented.
 - c. If crop production and quality are below required levels.
9. The cheapest way for Carbon dioxide (CO₂) application is:
 - a. Maximize natural (Free) CO₂ supply
 - b. Liquid or Bottled CO₂ Gas.
 - c. CO₂ from Carbon-Based Fuels
10. Photosynthesis and CO₂ consumption happens:
 - a. Only during daylight hours
 - b. Only at night
 - c. At night and during daylight hours
11. Select the correct affirmation:
 - a. The amount of light needed for extending the day length is usually considerably higher than the amount of light provided in support of overall plant growth.
 - b. The amount of light needed for extending the day length is similar than the amount of light provided in support of overall plant growth.
 - c. The amount of light needed for extending the day length is usually considerably lower than the amount of light provided in support of overall plant growth.
12. Select the incorrect affirmation:
 - a. Fluorescent bulbs give off more uniform light than incandescent lamps.
 - b. High-pressure sodium (HPS) lamps are the less commonly used HID fixtures in commercial greenhouses.
 - c. The halogen incandescent bulb is a more energy-efficient modification of the traditional incandescent bulb.
13. Greenhouse plastic should have:

- a. Maximum solar transmission and be opaque to long-wave radiation to reduce heat loss at night.
- b. Minimum solar transmission and be opaque to long-wave radiation to reduce heat loss at night.
- c. Minimum solar transmission and be transparent to long-wave radiation to reduce heat loss at night.

14. Greenhouse cladding films range in thickness:

- a. From 80 to 200 μm .
- b. From 20 to 40 μm .
- c. From 800 to 1200 μm .

15. To protect plastic cover against degradation:

- a. IR (infrared) absorbing additives are used.
- b. UV (ultraviolet) stabilizer additives are used.
- c. UV (ultraviolet) stabilizer additives and IR (infrared) absorbing additives are used.

Note: The correct answers are in red.