

# EXAM

(3.0 Hours - Other)

Title: Solar Stress & IPM Objectives,

Course # A-0417-10

Name: \_\_\_\_\_, License # \_\_\_\_\_, License Type: \_\_\_\_\_

Address: \_\_\_\_\_, City \_\_\_\_\_, State \_\_\_\_\_, ZIP \_\_\_\_\_

E-mail: \_\_\_\_\_, Phone # \_\_\_\_\_

Instructions: Please **print** this exam; answer each question, and mail it, along with a \$25.00 processing fee to:

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1. The key components of an IPM program are?
- a. Prevent pest problems
  - b. Identifying pests and their ecology
  - c. Regular monitoring of plants and pests
  - d. Use control action thresholds
  - e. Integrate the use of biological, chemical, cultural, and physical control methods
  - f. All of the Above

2. Minimizing solar damage to the crop should be used as a cultural practice.
- a. True
  - b. False

3. Solar stress accounts for 30% to 60% of all damage to many crops throughout the world.
- a. True
  - b. False

4. Solar stress leads to much more than just degradation of fruit quality.
- a. True
  - b. False

5. It becomes one of the most important factors to consider in an Integrated Pest Management Program.
- a. True
  - b. False

6. Solar damage can be an early indicator of potential secondary infestations.
- a. True
  - b. False

7. Secondary Infestations can Include?
- a. Insects will attack a weakened plant/fruit
  - b. Pathogens will find it easier to establish themselves on damaged fruits or plants
  - c. Loss of storability
  - d. All of the Above

8. A healthy plant can resist pest infestations better than one not so healthy.
- a. True
  - b. False

9. Solar stress is a combined situation of Ultraviolet Radiation and Infrared and Far Infrared Radiation.
- a. True
  - b. False

10. Combined they are exhibited in both External symptoms of burn and Internal symptoms of crop destruction.
- a. True
  - b. False

11. Solar stress is independent of location, it can and does occur anywhere in the world.
- a. True
  - b. False

12. It is often expressed or considered only during high temperature events; this is however not always the truest indicator.
- a. True
  - b. False

13. Our climate is in flux, there are areas in the world which express higher than average temperatures and areas which express lower than average temperatures.

- a. True
- b. False

14. Solar stress has a negative impact on agriculture by?

- a. Reducing Marketable Yield
- b. Degrading Fruit and Vegetable Quality
- c. Increasing the Water Demands
- d. All of the Above.

15. The consumption of water by plants under solar stress is often 30 to 50% more than a plant not under stress.

- a. True
- b. False

16. Water can do what during the day?

- a. Evaporate
- b. Leave the plant through Transpiration
- c. Gravitationally it will move down out of the root zone
- d. All of the above

17. Solar Damage only affect row crops.

- a. True
- b. False

18. Solar Damage is worsening via UV and IR radiation.

- a. True
- b. False

19. Solar Damage inhibits proper plant photosynthesis.

- a. True
- b. False

20. Solar Damage cannot be managed.

- a. True
- b. False