

**Sir Arthur Lewis Community College
Division of Agriculture**

**2006/2007 Certificate Programme
End of Semester II Examination**

Course: Crop Production & Technology (CPT111)
Duration: 2.5 hours

Date: May 2007

SECTION A: Please answer true or false by circling the appropriate letter. (1 mark each)

1. T F Short day plants flower only when day length is less than 14 hours.
2. T F Soil texture is concerned with the arrangement is concerned with the arrangements of particles in a soil.
3. T F Silt has smaller particle size than clay.
4. T F Tillage may control soil erosion.
5. T F Soil horizons make up a soil profile.
6. T F A mite is an insect.
7. T F Necrosis refers to tissue death in plants.
8. T F Butterflies undergo complete metamorphosis.
9. T F Powdery mildew is a bacterial disease.
10. T F Damping off is a disease caused by a fungus.
11. T F Tissue culture is also known as micro propagation.
12. T F Crop rotation improve soil fertility.
13. T F Pruning is the removal of dead, diseased or unwanted plants.
14. T F Organic farming does not use in-organic production inputs
15. T F Mulching is the covering of the soil surface with organic or in-organic material.
16. T F A crop is ready to harvest only when it is physiologically mature.
17. T F Processing adds value to fresh produce.
18. T F Good Storage
19. T F One objective of post-harvest technology is to maintain the quality of the produce.
20. T F Green house may be used to promote all year round production of a crop.





SECTION B (20 marks)

1. List four abiotic environmental factors required for plant growth.
2. Equal portion of sand, silt and clay is called _____?
3. Plant response to duration of day length is called _____?
4. Yellowing of leaves due to nitrogen deficiency is called _____?
5. List two types of the following types of implements (a) primary tillage; (b) secondary tillage.
6. Based on their molth parts insects maybe classified as _____, _____, and _____.
7. Distinguish between climate and weather.
8. Name the three major components of a good storage facility.
9. What does the term 'added value' means?
10. List three factors that determine the quality of a crop.



SECTION C

ANSWER ANY THREE QUESTIONS

1. Weeds are detrimental to crop. Discuss why this is so and explain the various method a farmer may use to control weeds **(20 marks)**
2. (a) Define soil fertility and state two ways a soil may gain fertility and two ways it may loose it. **(5 marks)**
(b) Define soil pH and explain how it can affect crop growth? **(10 marks)**
(c) Name five plant nutrients and give one function of each nutrient. **(5 marks)**
3. (a) What factors would influence the amount and frequency of irrigation. **(5 marks)**
(b) Name the three methods of irrigation and give one advantage and one disadvantage of each. **(10 marks)**
(c) Discuss briefly your understanding of the term water conservation and state 2-way this can be achieved. **(5 marks)**
4. (a) State what is a cropping schedule and explain how it can be beneficial to a farmer. **(15 marks)**
(b) Discuss three ways how spacing and variety of crop may impact on its production. **(5 marks)**

~~~~~End of Examination~~~~~

