



FIJI NATIONAL UNIVERSITY
College of Agriculture, Fisheries & Forestry
School of Agricultural Sciences
Department of Crop Production
Trade Diploma in Agriculture – Year I
Trimester III FINAL EXAMINATION - 2016

HOR408: FRUIT CROP PRODUCTION

Time Allowed: 3 hours plus (10 minutes reading time) Total Marks: 100

INSTRUCTIONS

1. This paper consists of seven pages.
2. Write all your answers in the answer booklet provided.
3. Write your student number on the front page of your answer booklet.
4. If you use extra sheets of paper be sure to show clearly the number of question been answered and to tie each sheet securely in your answer booklet provided at the appropriate place.
5. There are three sections in this paper.
6. Sections A, B and C are compulsory.

SUMMARY OF QUESTIONS

Section	Guidelines	Total Marks	Suggested Time
A	Part 1: Multiple Choice	10	60 minutes
	Part 2: Fill in the Blanks	10	
Part 3: True and False	10		
Part 4: Matching	10		
		40 Marks	
B	Short answer questions Answer all the questions. Each question is worth 1- 4 marks.	40 Marks	60 minutes
C	Long answer questions Answer both questions given. Answer each question in 300 words. Each question carries 10 marks.	20 Marks	60 minutes

SECTION A**[Compulsory]****[40 MARKS]**

- Answer all four parts in this section.
- Each part is worth 10 marks.

PART 1**MULTIPLE CHOICE****[10 marks]**

- A. There are ten multiple-choice questions in this part.
- B. All are compulsory.
- C. Each question is worth one mark.
- D. For each question, choose the letter of the **best** answer and place it on the answer paper.

1. An agronomic discipline that studies varieties of fruit and berry plants in order to select the best varieties for cultivation in various regions and is concerned with the rational use of particular varieties in fruit growing is known as
 - A. Pomology.
 - B. Sericulture.
 - C. Aquaculture.
 - D. Floriculture.
2. The history of fruit growing was first written by A. T. Bolotov in
 - A. 14th century.
 - B. 18th century.
 - C. 16th century.
 - D. 20th century.
3. The class of fruits required hot and humid climate in a summer and mild winter.
 - A. Tropical fruits.
 - B. Sub-tropical fruits.
 - C. Temperate fruits.
 - D. Arid fruits.
4. A close planting of tall growing, fruit trees all around the orchard is known as
 - A. Agroforestry.
 - B. Hedging.
 - C. Cover crops.
 - D. Wind breaks.
5. The removal of plant parts with an objective to get better yield and good quality fruit refers to
 - A. Dwarfing.
 - B. Training.
 - C. Pruning.
 - D. Pinching.

- C. Pruning .
 - D. Pinching.
6. In Coconut production weed management is important in
- A. 3-5 years.
 - B. 6-8 years.
 - C. 4-6 months.
 - D. 10-12 months.
7. Which of the following country is the top cocoa bean producer of the world
- A. Ghana.
 - B. Nigeria.
 - C. Belgium.
 - D. Ivory Coast.
8. Which country has the highest demand of pineapples
- A. United States.
 - B. Belgium.
 - C. Netherlands.
 - D. Germany.
9. Watermelons mature in
- A. 2 months.
 - B. 3 months.
 - C. 4 months.
 - D. 6 months.
10. The planting material shown below is of



- A. Sugarcane.
- B. Yaqona.
- C. Cassava.
- D. Ginger.

PART .2

Matching

[10 marks]

- Match the descriptions in List B with the words in List A.
- Write the letter of the description from List B in the space beside the matching number in the answer booklet.

List A

List B

1. Climate	_____	a. A method of reproduction where seeds are used to get new plants
2. Cocoa	_____	b. A practice in which the tree growth is directed into a desired form and shape
3. Cavendish	_____	c. A native of America
4. Honolulu	_____	d. Is one of the important complex factor which influences the fruit production
5. <i>Cocos nucifera</i>	_____	e. Scientific name of Cocoa
6. Watermelon	_____	f. Seedlings are gradually exposed to the direct sun for a week to avoid stress
7. Hardening off	_____	g. Recommended variety of yaqona in Fiji
8. Pomologist	_____	h. A variety of banana
9. Training	_____	i. <i>Citrullus lanatus</i>
10. Sexual propagation	_____	j. Scientific name of coconut
		k. A person who is involved in the constant improvement of certain varieties and the varietal composition of orchard plants

Part.3**True and False****[10 marks]**

- Write 'True' if you think that the statement is correct and 'False' if you think it is incorrect.
- Write your answers in the space provided on the right hand side beside each question number in the answer booklet.

1. Floriculture deals with the cultivation of fruits. (True/False)
2. Jackfruit is an example of a tropical fruit crops. (True/False)
3. Tissue culture is an example of sexual propagation. (True/False)
4. Seradix is an example of a growth hormone. (True/False)
5. Coconut plants have a separate male and a female flower on similar plants. (True/False)
6. The endosperm of the coconut is known as the edible "flesh" and when dried it is called Copra. (True/False)
7. The highest watermelon producer in the world is Brazil. (True/False)
8. The male and female flowers of a yaqona plant are on same plants. (True/False)
9. The Trinitario variety of cocoa is a hybrid between Criollo and Forastero varieties. (True/False)
10. Bunchy top is a disease caused by bacteria, which affect the growth of citrus plants. (True/False)

Part.4**Fill in the blanks****(10 marks)**

- Fill in the blanks with the appropriate word from the list given below to complete the following statements.
- Do NOT use a word more than once.
- Write your answers in the answer booklet provided.

Copra cake	synthetic	natural
Income	soil	fertilization
Flowers	mangoes	cooking
Orchids	citrus	pawpaw

1. From one unit area of land, more _____ will be obtained if proper management is followed.
2. Climate and _____ are the chief natural physical factors on which success or failure of fruit production is dependent.
3. Upon pollination and _____ the petals, stamen and style wither away and fall to the ground.
4. Growth regulators are any of the _____ or naturally occurring.
5. _____ is an example of a livestock feed.
6. There are three types of _____ on a banana inflorescence.
7. _____ are regarded as king of fruits.
8. Papayas can be used as a food, a _____ aid and medicine.
9. Vanilla is one of the four species of _____, which gives aromatic flavour in the food.
10. A major _____ project like batiri in vanua levu was started in 1977.

SECTION. B**[Compulsory]****(40 Marks)****SHORT ANSWER QUESTIONS**

- Answer the following questions.
- There are 17 questions only.
- Discussing a point is very important to gain full marks.

1. List at least two importance of horticulture in Fiji. (2 marks)
2. List at least four components of climate, which affects fruit crop production. (2 marks)
3. List four problem areas in horticulture that needs to be improved to increase fruit production. (2 marks)
4. List four factors to be considered while selecting site for fruit crop production (2 marks)
5. List four methods of sowing seeds. (2 marks)
6. List at least four methods of asexual propagation. (2 marks)
7. List two objectives of pruning of fruit trees. (2 marks)
8. List two methods of pruning. (2 marks)
9. Briefly discuss the climatic and soil requirements of cocoa production. (4 marks)
10. Define the following horticultural terms. (3 marks)
 - Seed dormancy.
 - Seed viability .
 - Seed longevity .
11. List the characteristics of coconut seedlings for selection. (2 marks)
12. How to treat nematode problem on banana plants (2 mark)
13. List the advantages of having nurseries. (2 marks)
14. Discuss watermelons under the following sub-headings:
 - a) Recommended varieties. (2 marks)
 - b) Diseases and their control/management methods (2 marks)
 - c) Insect control/management (2 marks)
15. List two varieties of pineapple. (2 marks)
16. List the care and maintenance practices for vanilla production. (2 marks)
17. List two varieties of pawpaw. (1 mark)

Section C

LONG ANSWER QUESTIONS

(20 marks)

- Answer the both questions given below.
- Each question is worth 10 marks.
- Answer each question in approximately 250-300 words.

QUESTION .1

- A. Define the term tissue culture. (2 marks)
- B. Briefly discuss the steps to be followed in tissue culture. (4 marks)
- C. List two advantages and two disadvantages of tissue culture. (4 marks)

QUESTION .2

Discuss the cultivation of coconut, breadfruit or vanilla under the following sub- headings:

- soil requirement (2 marks)
- planting method (2 marks)
- care and maintenance (2 marks)
- pest and disease control (2 marks)
- harvesting and marketing (2 marks)

THE END