



**COLLEGE OF AGRICULTURE, FISHERIES & FORESTRY**

**School of Agricultural Sciences**

**Department of Crop Production**

**Trade Diploma in Agriculture – Year 1**

**HOR 407: Production Technology of Vegetables, flowers and  
Spices**

**Trimester 2 Final Examination 2017**

**[Total Marks: 100]**

Time Allowed : 3 hours plus 10 minutes reading time

Instructions : This paper consists of 7 pages.

Please check to see that your paper is complete.

Answer ALL questions in the answer booklet. Number your answers correctly in the answer booklet.

Write your student ID number on all the pages that you use including any additional sheet of paper.

Printed or written material is not allowed into the examination hall.

Mark values appear at the end of each question or part thereof.

**“MOBILE PHONES ARE STRICTLY NOT ALLOWED”**

<b>SECTION</b>	<b>DESCRIPTION AND MARK ALLOCATION</b>
<b>SECTION A</b>	Part 1 - Multiple Choice Questions – 10 Marks
	Part 2 – Matching – 10 Marks
	Part 3 – True or False – 10 Marks
	Part 4 – Fill in the Blanks – 10 Marks
<b>SECTION B</b>	Short Answer Questions – 30 Marks
<b>SECTION C</b>	Long Answer Questions – 30 Marks

Write the most appropriate answer of your choice in the answer booklet

1. What is Horticulture?
  - A. The area of horticulture that deals with the production of vegetable crops
  - B. The branch of horticulture that deals with the study and production of fruits
  - C. Is the culture of plant for food, comfort and beautification
  - D. None of the above
  
2. *Pythium damping off* is a disease of
  - A. Shoots
  - B. Leaves
  - C. Fruit
  - D. Root
  
3. In Fiji the best time to plant chilies is during the hot wet season from
  - A. January to February
  - B. April to June
  - C. September to February
  - D. September to January
  
4. One type of Cole crop plant is
  - A. French bean
  - B. Water cress
  - C. Long Bean
  - D. None of the above
  
5. The largest producer and consumer of chilly in the world is
  - A. Japan
  - B. China
  - C. India
  - D. America
  
6. One of the importance of Vegetables in human nutrition is
  - A. Vegetable are the reliable source for many dietary factors.
  - B. As vegetable contain many of the dietary factors like vitamins, minerals and amino acids they are considered as protective supplementary food.
  - C. They produce taste, increase appetite and produce fair amount of fibers.
  - D. All the above

7. The Scientific name of chilly is
- A. *Vigna sesquipedaiis*
  - B. *Capsicum annum*
  - C. *Phaseolus vulgaris*
  - D. *Cucumis sativas*
8. Branch of horticulture that deals with the study and production of fruit is termed as
- A. Floriculture
  - B. Horticulture
  - C. Pomology
  - D. Olericulture
9. The best method of storing potatoes is
- A. Cold storage
  - B. Vacuumed storage
  - C. Water cooled storage
  - D. Underground storage
10. Tomato belongs to the family of
- A. *Cucurbitaceae*
  - B. *Mustard*
  - C. *Brassica*
  - D. *Solanaceae (Night Shade)*

**PART 2****MATCHING****[10 Marks]**

Match List A with the corresponding correct answer from List B and write the answer in the answer booklet provided.

#	Section A		Section B
1	Yard Long	A	Is one of the recommended Tomato variety in Fiji
2	Potato	B	Study of plants and their processes
3	Thinning	C	<i>Brassica Oleracea</i>
4	Green Potatoes	D	Is one of the recommended variety of chilly in Fiji
5	Recommended varieties of potato	E	Is one of the Tomato varieties.
6	Birds Eye	F	Red rascal, Dalisay and Sebago
7	Beef steak	G	Development of chlorophyll on the superficial layer of potato when it gets exposed to sunlight.
8	Alton	H	This is done to keep one healthy plant per hill as excess plant populations adversely affect the growth and yield.
9	English Cabbage	I	<i>Solanum Tuberosum</i>
10	Botany	J	One of the recommended varieties of long bean in Fiji

**PART 3****TRUE OR FALSE****[10 Marks]**

In the Answer booklet provided write "TRUE" if the statement is correct and "FALSE" if the statement is incorrect.

Sl.no.	Statements	T or F
1	Soil Analysis should not be done before fertilizer application.	
2	Vegetables are classified according to which part of the plant is eaten.	
3	FS Cross, KK Cross, Green coronet is the recommended variety of English Cabbage.	
4	The recommended varieties of ginger are Canton group and Fijian Variety or Fiji tall.	
5	Aphid and mites in chilly can be controlled by Bifenthrin at 14 to 18ml/15L of water	
6	Floriculture: the science of production and utilization of ornamental plants	
7	The key to maintaining okra production continuously throughout the summer is to harvest regularly.	
8	India is the leading producer and consumer of Chillies in the world.	
9	Okra is member of the mallow family; it is closely related to flowering hibiscus	
10	Sobi and yard long are the recommended varieties of water melon in Fiji.	

**PART 4****FILL IN THE BLANKS****[10 Marks]**

Fill in the blanks to complete the following statements. Write your answers in the answer booklet.

1. The field of science that deals with the cultivation of horticultural plants is known as \_\_\_\_\_.
2. \_\_\_\_\_ the science of production and utilization of ornamental plants.
3. \_\_\_\_\_ is concerned with the production of vegetables out of the normal season.
4. When referring to vegetables, fungi are commonly known as \_\_\_\_\_.
5. \_\_\_\_\_ includes the planting, harvesting, storing, processing, and marketing of vegetable crops.
6. \_\_\_\_\_ is the recommended varieties of long bean in Fiji.
7. The key to maintaining okra production continuously throughout the summer is to \_\_\_\_\_.
8. Ginger is ready for harvesting in about 8 months., when the leaves turn \_\_\_\_\_ and start drying.
9. Cole" refers to any of various plants belonging to the \_\_\_\_\_ family.
10. Cauliflower likes a good \_\_\_\_\_ level as well and will show symptoms of deficiency when the soil is allowed to become too acidic.

**SECTION B****SHORT ANSWER QUESTIONS****[30 Marks]****All are compulsory**

1. Differentiate between Olericulture and Pomology? **(2 Marks)**
2. What are Cole crops? **(2 Marks)**
3. Differentiate between Determinate and Indeterminate growth in tomatoes? **(3 Marks)**
4. Explain 4 advantage of kitchen garden? **(4 Marks)**
5. Vegetable gardens are classified into 7 different types according to the purpose for which they have been developed. Explain Kitchen garden and Truck garden. **(4 Marks)**
6. Determine the 3 recommended variety of Okra in Fiji? **(3 Marks)**
7. Determine 4 uses of Ginger? **(2 Marks)**
8. Specify why is it necessary to harvest Okra regularly, at least every other day? **(2 Marks)**
9. Describe the maturity indices of Potato? **(3 Marks)**
10. Describe the BQA requirement for chillies. **(2 Marks)**
11. Specify the importance of doing soil analysis test? **(3 Marks)**

**This section consists of long answer questions.  
Answer the entire question.**

1. Briefly discuss the following about chilly planting in Fiji:
  - A. Planting Time
  - B. Planting Method
  - C. Seed rate
  - D. Spacing
  - E. Germination period

**(10 Marks)**
  
2. Specify in detail 5 reasons why horticulture industry is getting popular all over the world?

**(5 Marks)**
  
3. Explain potato under the following heads:
  - A. Botanical name and family
  - B. Varieties
  - C. Growth stages
  - D. Maturity and harvesting
  - E. Storage

**(10 Marks)**
  
4. The recommended fertilizer application rate ,for lettuce is:
  - A. NPK — 200 Kg/Hectare
  - B. Urea — 100 Kg/Hectare

Calculate how much NPK and Urea you are supposed to apply to your 5m X 5m garden plot. (Show all Working) **(5 Marks)**

**The End**