



FIJI NATIONAL UNIVERSITY
College of Agriculture, Fisheries & Forestry
School of Agricultural Sciences
Department of Crop Production
Bachelor of Science in Agriculture – Year I
HOR 601- Production Technology of Vegetables and Flowers

Trimester III

Final Examination - 2016

Total Marks: 100

Time Allowed: Three Hours

[An extra ten minutes is allowed for reading this paper]

INSTRUCTIONS TO STUDENTS

1. This paper consists of five pages.
2. Attach all the extra sheets used as your answer paper in their correct sequence and secure with a string.
3. Use both sides of the answer sheet and write your candidate number on each sheet.
4. Write clearly the number(s) of the question(s) attempted on the top of each sheet.

SECTION	PARTICULARS	TOTAL MARKS	TIME ALLOCATIONS
A	Part 1: Multiple Choices Part 2: Fill in the Blanks Part 3: True and False Part 4: Matching	35	30 minutes
B	Short answers questions	35	60 minutes
C	Long answers questions	30	90 minutes
	Total	100	3 Hours

SECTION -A

(10×1.5=15 Marks)

INSTRUCTIONS

- There are four parts in this section.
- All the questions are compulsory.
- In your answer booklet write the question number followed by the answer.

Part 1: Multiple Choices. [Pick the correct answer.]

1. _____ is a cool season crop
 - a. Brinjal
 - b. Okra
 - c. Tomato
 - d. Chilli
2. A cowpea variety that is mostly preferred for export is
 - a. Rachna
 - b. Tara
 - c. Shikhar
 - d. All of the above
3. The age of seedling transplanting in tomatoes are from
 - a. 5-10days
 - b. 10-20days
 - c. 20-25days
 - d. 25-30days
4. A disorder of tomato where a large scar is formed at the blossom end portion of the fruit is
 - a. Cat facing
 - b. Sunscald
 - c. Blossom end rot
 - d. Bronzing
5. Seed rate for cucumber is
 - a. 1-2kg/ha
 - b. 2-3kg/ha
 - c. 3-6kg/ha
 - d. 4-6kg/ha
6. Labrador is a variety of
 - a. French bean
 - b. Cowpea
 - c. Tomato
 - d. Brinjal

7. Perennial vegetables has been classified in which group
 - a. Group- 1
 - b. Group- 2
 - c. Group- 3
 - d. None of the above

8. Blossom end rot of tomato is caused by deficiency of
 - a. Molybdenum
 - b. Magnesium
 - c. Calcium
 - d. Boron

9. An example of cucurbit is
 - a. Chilli
 - b. Cabbage
 - c. Watermelon
 - d. Sweet potato

10. The term applied to edible herbaceous plant or plant part thereof, which are consumed generally in the unripe stage after cooking is known as
 - a. Fruits
 - b. Legumes
 - c. Vegetables
 - d. None of the above

Part 2:

Fill in the blanks with appropriate answers.

(5×1=5 Marks)

1. The roots and stem of _____ are used for clarifying cane juice and the manufacture of gur or brown sugar.
2. To control anthracnose, _____ variety of cucumber is planted.
3. Cucumber is ready for harvesting _____ days after sowing.
4. For long storage, cowpea seeds are coated with a thin layer of cooking oil to prevent _____ from attacking.
5. _____ is a slow growing crop that cannot compete with aggressive weeds.

Part 3:**True or False****(10×1 =10 Marks)**

1. Browning in cauliflower is caused by molybdenum deficiency. (True/False)
2. Seed rate for Tara variety of cowpea is 23kg/ha. (True/False)
3. French bean matures early on loamy soils compared to other soils. (True/False)
4. Cauliflower is a wet season crop. (True/False)
5. Tomato is a cool season crop. (True/False)
6. At a very high temperature, formation of lycopene in tomato is inhibited. (True/False)
7. At pink stage in tomatoes, ¼ of the surface of fruit shows pink. (True/False)
8. Bitterness in brinjal is due to presence of glycol alkaloids. (True/False)
9. The pH requirement for brinjal is 5.5 to 6.0 for better growth and development. (True/False)
10. The origin of bottle gourd is from Burma. (True/False)

Part 4:**Match the following****(5×1=5 Marks)**

Common name	Botanical name
A. Onion	I. <i>Lagenaria siceraria</i>
B. Okra	II. <i>Allium sativum</i>
C. Bottle Gourd	III. <i>Allium cepa</i>
D. Garlic	IV. <i>Momordica charantia</i>
E. Bitter Gourd	V. <i>Abelmoschus esculentus</i>

SECTION- B**Short Answer Questions****(7×5= 35 Marks)****Answer all the questions. Each question carries 5 marks.**

1. Discuss the different type of beans according to their growth habit and requirement for day length.
2. List and explain all the stages of tomato harvesting.
3. List the biosecurity measures that a country must follow in order to export any vegetable.
4. Briefly list and discuss the abiotic disorder of cabbage.
5. Briefly explain the water management in brinjal.
6. Briefly explain the whiptail disorder of cauliflower.
7. Discuss the nutrient management of cowpea in brief.

SECTION-C

Long Answer Questions

(3×10=30Marks)

- Answer any **three** questions from the following.
- **Each question carries 10 marks.**

1. Discuss Chilli (*Capsicum annum L.var. annum*) under the following headings:

- Soil.
- Varieties.
- Sowing and seed rate.
- Nutrient management
- Harvest management

2. Discuss Cucumber (*Cucumis sativus*) under the following headings:

- Soil requirements.
- Varieties.
- Seed rate and sowing
- Nutrient management
- Water management

3. Discuss onion (*Allium cepa*) under following headings:

- Soil & climatic requirements
- Varieties
- Seed rate and sowing
- Nutrient management
- Water management

4. Discuss cauliflower (*Brassica oleracea var. botrytis*) under following headings:

- Soil requirements
- Varieties
- Seed rate and sowing
- Nutrient management
- Harvesting

5. Define the term vegetable garden, list and discuss any five types of vegetable garden in detail.

THE END



EQP RECEIPT CHECKLIST FORM

Particulars	Details/Comments (To be filled by Unit Lecturer)	Tick if present on EQP (To be filled by exams staff)
Cover Page		
Fiji National University with Logo	✓	
College	✓	
School	✓	
Program	✓	
Unit Code	✓	
Unit Name	✓	
Examination Period	✓	
Duration of Examination	✓	
Instructions	✓	
Total Number of Pages	✓	
Other Pages		
Footer		
Page Number	✓	
Unit Code	✓	
Examination Period	✓	
Last Page		
The End	✓	
Overall		
Proper Print	✓	
Examination Requirements (FNU/E-1)	✓	
Moderator's Report (FNU/E-3)	✓	
ERRS (Class List)	✓	
Unit Coordinator/Principal Lecturer's Name	VIRENDRA JANAK	

DISPATCHED BY (SCHOOL REP)

NAME: _____

SIGN: _____

DATE: _____

RECEIVED BY (EXAMS REP)

NAME: _____

SIGN: _____

DATE: _____