



FIJI NATIONAL UNIVERSITY
College of Agriculture, Fisheries & Forestry
School of Agricultural Sciences
Department of Crop production
Bachelor of science in agriculture – year II
Trimester III Final Examination – 2017

HOR 601: Production Technology Of Vegetables and Flowers

Time Allowed: 3.00 hours plus (10 minutes reading time) Total Marks: 100

INSTRUCTIONS:

1. This paper consists of five pages.
2. Please check to see that all your paper is complete.
3. All answers should be written in Answer Booklet only.
4. **No** written or printed material and mobile phones are allowed in the examination hall
6. Marks allocated for each question appears at the side of each question so allocate your time accordingly.
7. This paper is divided into Two Parts. First Part contains Objective Type Questions, which is having four Sections – A, B, C, and D. All questions of this part are compulsory. Second part is Descriptive Type which is divided into three sections-A, B, and C.

I. OBJECTIVE TYPE QUESTIONS (40 Marks)

To be answered only on the Answer Sheet.

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|---------------------------------------|------------|
| Section A: Fill in the blanks. | (10 Marks) |
| Section B: Multiple-choice Questions. | (10 Marks) |
| Section C: Matching type. | (10 Marks) |
| Section D: Write True or False. | (10 Marks) |

II. DESCRIPTIVE TYPE QUESTIONS (60 marks)

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| Section A: Short note questions. | (15 Marks) |
| Section B: Short answers type. | (15 Marks) |
| Section C: Long questions. | (30 Marks) |

I. OBJECTIVE TYPE QUESTIONS

A. Fill in the blanks.

(10 x 1 = 10 Marks)

01. Vegetable forcing are concerned with the production of vegetables out of their _____ season.
02. In floating garden, Base is first made from _____ grass.
03. Cowpea belongs to family _____.
04. Botanically the fruit of Cucumber is known as _____.
05. The bitterness in chilli is due to presence of _____ and also contains many other oleoresins.
06. Seed rate of cucumber is _____ Kg Per hectare.
07. Diamond back moth is major pest of _____ group vegetable.
08. _____ are fence of closely planted shrubs in rows along the boundary.
09. A rooting hormone, which initiates or promotes root growth is _____.
10. Many _____ do not grow in soil because they have aerial roots.

B. Multiple-choice questions: Select the correct answer.

(10 x 1 = 10 Marks)

11. Which of the following vegetable is monocot:

A.	Onion	B.	Asparagus
C.	Yam	D.	All of the above

12. The chromosome number of Brinjal is

A.	22	B.	24
C.	26	D.	23

13. Olericulture means:

A.	Production and utilization of vegetables	B.	Production and utilization of flowers
C.	Production and utilization of Fruits	D.	Beautification and protection of environment

14. Rutin which has Pharmaceutical use is found in

A.	Chilli	B.	Okra
C.	Brinjal	D.	Cucumber

15. Red Fire is an variety of

A.	Cucumber	B.	Tomato
C.	Cowpea	D.	Chilli

16. Seed rate requirement in Okra is :

A.	8-10 kg/ ha	B.	10-12 kg/ ha
C.	16-18kg/ ha	D.	18-22 kg/ ha

17. Majority of cucurbits are;

A.	Monoecious	B.	Dioecious
C.	Gynomonoecious	D.	Andromonoecious

18. Momordicine is found in:

A.	Bottlegourd	B.	Ridgegourd
C.	Spongegourd	D.	Bittergourd

19. Which variety of Cowpea is preferred for export :

A.	Mana	B.	Rachna
C.	Shikhar	D.	None of the above

20. The response of plant towards light is known as:

A.	Phototropism	B.	Geotropism
C.	Aerotropism	D.	HydrotropismCarroy

C. Match the following:

(10 x 1 = 10 Marks)

21.	Carrot are rich source of	A.	Araceae
22.	Vegetable garden where selected crops are grown in large quantity are known as	B.	<i>Cucumis sativa</i>
23.	Alton is a variety of	C.	<i>Lagenaria siceraria</i>
24.	The ideal temperature for growth and development of Okra is	D.	Vitamin A
25.	Scientific name of Bottle gourd is	E.	Turf
26.	Cowpea requires less Nitrogen in comparison to other crop because it is a	F.	24-27° c
27.	Scientific name of Cucumber is	G.	Tomato

28.	Common flowers grown in Fiji are	H.	Truck garden
29.	Short grass and the surface layer of soil bound together by its roots are known as	I.	Marigold, Hibiscus
30.	Taro belongs to the family	J.	Leguminous crop

D. D. 'True' or 'False'. Write true if the statement is true otherwise False. (10 x 1 = 10 Marks)

31.	Okra belongs to family solanaceae	
32.	The place of origin of eggplant is India	
33.	Olericulture is the branch of Horticulture, which deals with pot shrubs	
34.	The ideal pH for the growth of Chilli is 6-7	
35.	Leguminous vegetable are rich source of minerals	
36.	When a bitter pollen fertilizes non bitter ovules, the resulting fruit is found to bitter. This phenomenon is called Metaxenia.	
37.	The process of improving or modifying the natural beauty of compound, School or village etc. is known as landscaping.	
38.	An area of closely cut grass in the garden of a house on a public park or used for games are known as Lawns	
39.	The scientific name of Taro is <i>Amorphophyllus hetrophyllus</i>	
40.	The commercially used part of Onion is - Rhizome	

II. Descriptive type Questions

(60 Marks)

A. Short note questions: attempt to answer five (5) out of seven questions only.
(3 marks each)

3 x 5 = 15 Marks

1. Apply your knowledge on the climatic requirement of Chilli.
2. Evaluate the utilization of Bittergourd.
3. Apply Scientific Name of:
(A) Cabbage (B) Cauliflower (C) Knol – Khol (D) Brussel Sprout (E) Sprouting broccoli.
4. Apply your knowledge on irrigation management of French bean.
5. Apply family of below listed vegetables
(A) Tomato (B) Cowpea (C) Okra (D) Cauliflower (E) Onion
6. Enlist five important flowering shrubs.
7. Evaluate Scarification.

**B. Short answers type: attempt to answer five (5) out of seven only.
(3 marks each)**

3 x 5 = 15 Marks

Evaluate and Discuss:

1. Seed rate and nursery management of Chilli
2. Nutrient management and Irrigation requirement of Bottlegourd
3. Enlist four important flowering Trees.
4. Demonstrate types of Pots and Potting mixtures.
5. Apply your knowledge on way of soil solarization.
6. Compare: (a) Sodding (B) Stripping
7. Compare: (A) Hydrotropism (B) Phototropism (C) Geotropism

**C. Long questions: attempt to answer four (4) out of six(6) questions only.
(7.5 marks each)**

4 x 7.5 =30 Marks

1. Apply your knowledge on the importance of vegetable in human nutrition.
2. Evaluate the Okra cultivation in reference to:
(A) Importance and nutritive value
(B) Climate and soil
(C) Manuring
3. Evaluate the cultivation of Cucumber in reference to:
(A) Seed and sowing
(B) Nutrient Management
(C) Irrigation management
4. Evaluate physiological disorders in Cauliflower.
5. Evaluate the cultivation of French bean in reference to
(A) Soil (B) Fertilizer/Manure (C) Irrigation
6. Define Green house, and Demonstrate construction of green house, their advantage and disadvantage.

THE END

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