

**KERALA AGRICULTURAL UNIVERSITY**  
**B.Sc. (Hons.) Agriculture – 2008 Admission - IV<sup>th</sup> Semester**  
**Final Examination – July-August 2010**

Cat. No. : Hort 2204  
Title : Vegetable Crops (2+1)

Max. marks: 80  
Time : 3 hours

**Section - I**

10x1=10

Fill in the blanks :

1. The scientific name of Bottle gourd is .....
2. In root vegetables, root to seed method is considered superior for quality seed production as compared to .....to seed method.
3. According to photoperiod requirement Tomato is a ..... plant.
4. Kashi Madhu is a variety of .....
5. Buttoning is a physiological disorder in ..... crop.

State True / False :

- |  |              |
|--|--------------|
| 6. Bitter gourd is a self pollinated crop                            | True / False |
| 7. Specified isolation distance is must for production of pure seed. | True / False |
| 8. Capsicum is also called as sweet pepper                           | True / False |
| 9. Spinach requires 500 kg nitrogen per hectare                      | True / False |
| 10. Ramnagar Giant is a variety of brinjal                           | True / False |

**SECTION -II**

10x3=30

Write short notes on any five of following :

1. Off season vegetable production.
2. TPS
3. Polyhouse
4. Fertigation
5. Cat facing
6. Seed

Differentiate any five of the following :

7. Determinate and indeterminate tomato
8. Broadcasting and line sowing
9. Macro and micro nutrients
10. Drip and sprinkler irrigation

11. *Brassica oleracea* var. botrytis and *Brassica oleracea* var. capitata

12. Spinach beet and spinach

III  
**SECTION -III**

6x5=30

Write short essays on ANY SIX of following :

1. Integrated nutrient management for production of important cucurbitaceous vegetables.
2. Role of growth regulators in sex expression of cucurbits.
3. Factors affecting vegetable production.
4. Role of leafy vegetables in human health.
5. Problems and prospects of legume vegetables in Kerala.
6. Storage of vegetable seeds.
7. Desirable characters for export of important vegetable crops.
8. Strategies for control of insect-pests in vegetables without harmful chemicals.

IV  
**SECTION -IV**

1x10=10

Write essays on ANY ONE of following :

1. Is it true that vegetables are indispensable for a nutritious human diet ? Explain your view.
2. What are the essential nutrients required for vegetable cultivation and why they are considered essential? Describe each nutrient wise. Also describe the symptoms that may appear in case of deficiency of micronutrients in major solanaceous vegetables and cole crops.