

M.Sc.(Ag.) Semester – I Examination, 2014

Horticulture

Course : HOR – 522

(Production Technology of Warm Season Vegetable Crops)

Time: 3 Hours

Full Marks: 50

Questions are of value as indicated in the margin.

Answer **any five** questions.

1. Write the origin and distribution of Tomato. Distinguish cultural practices between the determinate and indeterminate type? Write symptoms of two physiological disorders of tomato & its remedies? 2+4+4=10
2. Discuss the improved Production technology of cowpea with respect to (i) Climatic requirement (ii) Nursery management (iii) Nutritional requirement (iv) Intercultural operations (v) Harvesting & yield? 2×5=10
3. Write short notes (**any four**): 2.5×4=10
 - (i) Colour development in tomato
 - (ii) Bitterness in cucurbits
 - (iii) Seedless Water Melon.
 - (iv) Mulching in warm season vegetable crops.
 - (v) Importance of minor warm season vegetable with example.
 - (vi) Control of fruit fly in cucurbits.
4. Briefly discuss the varieties, climate and soil, nutritional requirements, maturity standards, and harvesting of okra. 2+2+2+2+2=10
5. Write down importance of sweet Potato. Briefly write its nursery management (Primary & Secondary) and planting methods in commercial scale. Also write about its harvesting technique, curing & its storage. 2+4+4=10
6. Briefly discuss the origin, improved cultivars, seed rate, growing season, soil and climatic requirement, yield and marketing of pumpkin. 1+2+1+1+2+1+2=10
7. Briefly describe the different sex forms in the family cucurbitaceae. Give two examples of dioecious cucurbit with their scientific name, family and yield potential. Write maturity standard of water melon and cucumber. 5+3+2=10
8. Answer the followings (**Any four**): 2.5×4=10
 - (a) Propagation & planting of cassava.
 - (b) Use of plant growth regulators in cucurbits.
 - (c) Difference between *Capsicum annuum* and *Capsicum frutescens*.
 - (d) Importance of green leafy vegetables in our diet.
 - (e) Differences between pole and bush type of french bean.
 - (f) Fruit & shoot borer in brinjal.