

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

Horticulture

Course : HOR – 524

(Seed Production Technology of Vegetable Crops)

Time: 3 Hours

Full Marks: 50

Questions are of value as indicated in the margin.

Answer **any five** questions.

1. Write the important breeding behavior of cucurbits. Discuss the major sex form of cucurbits with one example each. Write the botanical name, origin, anthesis time and colour of flower in pumpkin, spine gourd, cucumber and ridge gourd. 2+3+5=10
 2. Write the taxonomy of cole crops. Why hybrids are preferred in cabbage and cauliflower? Briefly discuss about seed production of cole crops. 10
 3. Write briefly about the seed production of palak. 10
 4. Define seed. Write in brief different factors affecting the quality of vegetable seed. Discuss in brief about hybrid seed production in vegetable crops. 1+4+5=10
 5. Discuss techniques of seed extraction in brinjal and radish. Write about the storage and packaging of vegetable seed. 5+5=10
 6. Soil and climatic requirement of onion for seed production. Discuss in details about the seed production technology of onion. 3+7=10
 7. Discuss **any four** from the following: 2.5×4=10
 - (i) Role of plant growth regulators in seed production of vegetable crops.
 - (ii) Isolation distance.
 - (iii) Role of temperature in vegetable seed production.
 - (iv) Mechanism favouring self pollination.
 - (v) DUS test in vegetable crops.
 - (vi) Storing techniques of vegetable seeds.
 8. Write short note (**any four**): 2.5×4=10
 - (i) Seed extraction of chilli.
 - (ii) Roughing.
 - (iii) Field and seed standard for brinjal seed production.
 - (iv) Seed extraction and packaging of tomato.
 - (v) Seed viability and seed vigour.
 - (vi) Foundation vs. certified seed.
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