

M.Sc. (Ag.) Examination, 2019
Semester-II
Horticulture
Course No: HOR-523
(Breeding of Vegetable Crops)

Time: Three Hours

Full Marks: 50

Questions are of the value as indicated in the margin

Answer **any five** questions.

1. Write in brief about history of vegetable breeding in India. Write a note on AICRP in vegetable crops. 8+2=10
 2. Write the breeding objectives and breeding achievements in brinjal and ridge gourd. 5×2=10
 3. Write in brief about the origin and evolution of cole crops. Mention the distinguished traits of tropical cauliflower. Name some varieties of tropical cauliflower. 4+3.5+2.5=10
 4. Write the wild species, breeding objectives, breeding methods and breeding achievements in tomato. 2.5+2.5+2.5+2.5=10
 5. Write the taxonomy of okra. Also write the breeding objectives and varietal development in okra in India. 2+8=10
 6. Answer the following questions (**any two**): 5+5=10
 - (a) Various sex forms in cucurbits with example
 - (b) Species of *Momordica*
 - (c) Taxonomy of watermelon
 7. Define Hybrid. Write various methods of hybrid seed production in vegetable crops. 2+8=10
 8. Write short notes (**any four**): 2.5×4=10
 - (a) Heterosis vs. hybrid
 - (b) Breeding systems
 - (c) Synthetic vs. composite variety
 - (d) Genetic tool
 - (e) Pure line vs. Inbred
 - (f) Mutation breeding
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