

M.Sc. (Ag.) Examination, 2019
Semester-II
Horticulture
Course No: HOR-514
(Breeding of Fruit Crops)

Time: Three Hours

Full Marks: 50

Questions are of the value as indicated in the margin

Answer **any five** questions.

1. State the importance of fruit breeding. What are the problems of fruit breeding? Enumerate the breeding methods and achievements in pineapple. 3+3+4=10
 2. Write briefly about the breeding methods and achievements of banana. 10
 3. State the sex forms, floral biology of papaya and discuss about the breeding methods and achievements of papaya with suitable references. 10
 4. State the origin, distribution, genetic resources, blossom biology, breeding objectives, and breeding systems of mango. 10
 5. Briefly discuss about the breeding objectives and achievement of guava and litchi with suitable references. 5+5
 6. Mention the taxonomical status, floral biology, inheritance patterns, objective and achievements of grape breeding. 10
 7. Enumerate the breeding objectives and major achievements of apple and strawberry. 10
 8. Write short notes on (**any five**): 5×2=10
 - (a) Biotechnological intervention of fruit crop improvement
 - (b) Polyploid breeding
 - (c) Mutation breeding
 - (d) Resistance breeding in fruit crops
 - (e) Taxonomy and genomic classification of banana
 - (f) Clone and clonal selection
 - (g) Rootstock breeding
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