Reg. No.					



BOH 551

IV Semester M.Sc. Degree Examination, September/October 2022 (CBCS) BOTANY Plant Breeding

Time: 3 Hours Max. Marks: 70

- I. Answer any three of the following. Each answer not exceeding five pages. (3×10=30)
 - 1) Discuss the present status and future prospects of plant breeding as both an Art and Science.
 - 2) Give an account of nature of gene action and components of genetic variation.
 - 3) Write a note on significance of continuous variation and qualitative traits.
 - 4) Explain the effect of self pollination on the genotype and its achievement in plant breeding.
 - 5) What is polyploidy? Mention its types, induction, applications and limitations.
- II. Answer any six of the following. Each answer not exceeding three pages. (6×5=30)
 - 6) Elucidate the morphological contrivances promoting Allogamy and Autogamy.
 - 7) Merits and demerits of germ plasm collection.
 - 8) Explain mutation breeding with examples.
 - 9) Hybrids and synthetic variation.
 - 10) Objectives and types of hybridization.
 - 11) Applications of wide crosses in plant breeding.
 - 12) Breeding for pest resistance.
 - 13) Centres of origin of crop plants.

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III. Answer any five of the following. Each answer not exceeding one page. (5×2=10)

- 14) Male sterility
- 15) Pure line theory
- 16) Heterosis and its types
- 17) Embryo rescue technique
- 18) Domestication
- 19) Vegetative reproduction
- 20) Self incompatibility.
