

M.Sc. (Botany) (NEP Pattern) Semester-IV
04MSCBOT02 DSC Paper-II - Plant Breeding and Biostatics

P. Pages : 1

Time : Three Hours



GUG/S/25/16320

Max. Marks : 80

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- Notes : 1. All questions are compulsory and carry equal marks.
2. Illustrate your answers with diagram & suitable examples.

- 1.** Write in detail on genetic and physiological basis of heterosis. **16**
- OR**
- a) Pure line selection. **8**
- b) Genetic basis of inbreeding. **8**
- 2.** Describe in detail Incompatibility in plant breeding. **16**
- OR**
- a) Chemical induction of male sterility. **8**
- b) Crop Variety maintenance. **8**
- 3.** Describe in detail Distant hybridization. **16**
- OR**
- a) Disease resistance plant breeding. **8**
- b) Genetic and biochemical basis of quality breeding. **8**
- 4.** Write in detail on ANOVA with suitable example. **16**
- OR**
- a) t-Test. **8**
- b) Concept of probability. **8**
- 5.** Write short notes on:
- a) Acclimatization. **4**
- b) Male sterility. **4**
- c) Intergeneric gene transfer. **4**
- d) Chi square. **4**
