

SECTION-B

- 11) What is self-Incompatibility and its different types? How it can be exploited in crop improvement programme?
- 12) What is polyploidy breeding? Describe the methods of production of autopolyploids and their importance in crop improvement.
- 13) Define mutations. What are the various means of inducing mutations? List the achievements of mutation breeding in India.
- 14) Illustrate a generalized scheme for clonal selection in sugarcane. What are its merits and demerits?
- 15) What is recurrent selection? List the various types of recurrent selection. Which scheme do you prefer and why?

SECTION-C

- 16) What is male sterility? List the various types of male sterility systems operating in plants. How CGMS is being used in developing hybrids in sorghum / pearl millet?
- 17) Discuss in detail the pedigree method of handling the segregating generations alongwith its merits. Also mention any one of its modification in detail.
- 18) Describe the genetic basis of heterosis along with objections and explanations. Discuss the achievements in hybrid breeding in different crops from Indian perspective.

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