

SECTION-B

2. Briefly discuss the breeding for fibre quality in cotton.
3. What are the different alternative strategies (other than the conventional breeding tools) employed for developing varieties or cultivars?
4. Discuss in detail, the breeding objectives and techniques in sugarcane.
5. List few strategies one should adopt for developing climate resilient crop varieties.
6. Define mutation. What are the characteristics of mutations and their role in plant breeding?

SECTION-C

7.
 - a) What do you understand by ideotype concept? Elaborate this concept in rice.
 - b) What are the various breeding strategies to develop climate resilient wheat varieties in the light of current rising temperature during winter season?
8.
 - a) What are the objectives and future thrust points of lentil/gram breeding?
 - b) What can be the various breeding strategies used in berseem improvement?
9. What are abiotic stresses? Enlist various abiotic stresses and their impact on yield and quality of crops. What are the various resistance mechanisms one breeder should look for to develop resistant varieties against these abiotic stresses?

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