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OR

AGEC - 557 : Commercial Plant Breeding

Group - A

Answer any ***five*** questions : 2×5=10

1. State two significance of self-pollination.
2. What is totipotency?
3. Define gene pool.
4. Differentiate between CMS and CGMS system of male sterility.
5. What is 'hybrid'?
6. What is meant by synthetic and composite variety?
7. What is 'Allogamy'?
8. Differentiate between male sterility and self-incompatibility.

Group - B

Answer any ***four*** questions : 5×4=20

9. Describe the mass selection process.
10. Briefly describe about different biochemical tests to check varietal genetic purity.
11. Write a short note on Roundup ready soybean.
12. Briefly describe different types of plant tissue culture methods.

13. Write a note on GI tag crop.
14. Write a short note on PPV & FR act.

Group - C

Answer any ***two*** questions : 10×2=20

15. Write down the different steps involved in varietal release at AICRP.
16. Write down the characteristics of ideal molecular marker. Briefly describe different types of molecular markers used in crop improvement. 5+5
17. Write a short note on DUS. Define GM crops. Briefly explain the potential benefits of GM crops. 3+2+5
18. Schematically represent the process of hybridization. What is quality test of cross-pollinated crops? 8+2

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