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PG AGRICULTURE
M.Sc. Semester-II Examination,2022
Genetics and Plant Breeding (GPB)
(THEORY)

PAPER: GPB 206

(MAINTENANCE BREEDING & RELEASE OF A VARIETY)

Full Marks: 50

Time: 2 Hours

THEORY

1. Answer any five questions from the following:

5X2 =10

- a. What is essentially derived variety?
- b. State the full forms of SVRC, CVRC, DUS and UPOV?
- c. What are the prescribed roles of seed inspector?
- d. What are the tag colour of Breeder Seed, Foundation and Certified seed?
- e. How unwanted pollination could be avoided in seed plots?
- f. Distinguish between variety and cultivar.
- g. Distinguish between farmer's and breeder's wright.



2. Answer any five questions from the following:

4×5 =20

- a. What is the difference between DUS test and VCU test?
- b. Distinguish between nucleus seed production stage-I and stage-II followed in self-pollinated crops.
- c. Compare crop varietal notification followed in India with that followed in abroad.
- d. What are the isolation distance followed for Foundation and Certified seed of Hybrid Rice, Maize, Lentil and Sorghum?
- e. State the major aspects of updated seed laws followed in India.
- f. How a seed lot could be designated as quality one?
- g. How apomixis helps in present day agriculture?

3. Answer any two questions from the following:

10×2 = 20

- a. Why DUS testing is required? Briefly describe about DUS descriptors of wheat. 2+8
- b. What is genetic deterioration of crop varieties? How it could be avoided in strict sense? 2+8
- c. What is maintenance of Breeding? Why it is important in quality seed production? 4+6
- d. Outline the most important aspects of 'Seed Bill' in India. 10
