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

PAPER: GPB 205
(BREEDING LEGUMES, OIL SEED AND FIBRE CROPS)

Full Marks: 50

Time: 2 Hours

THEORY

- 1. Answer any five questions from the following:** **2×5 =10**
- a. Why sesame is called the 'queen' of oilseeds?
 - b. What should be the prime considerations in improvement programme of Black Gram?
 - c. Name two varieties of groundnut. Which traits are considered as its ideal plant type?
 - d. What is chromosome number and origin of soybean?
 - e. Describe the cytoplasmic male sterility and fertility restoration in sunflower.
 - f. What is the botanical name and centre of origin of chickpea?
 - g. Distinguish between cytoplasmic and cytoplasmic-genetic male sterility.
- 2. Answer any five questions from the following:** **4×5 =20**
- a. What are the breeding objectives for improvement programme followed in oilseed Brassicas? 4
 - b. Briefly describe the breeding methods followed in Mung Bean. 4
 - c. State about different maturity groups of pigeonpea. Discuss about development of varieties in different groups. 1+3
 - d. What are the main problems associated with lentil breeding? Discuss in brief. 4
 - e. State about utilization of wild species in development programme in cotton. 4
 - f. What are the planting ratio followed for seed production in cotton and groundnut? 2+2
- 3. Answer any five questions from the following:** **10×2 = 20**
- a. Describe Hybrid seed production of Pigeonpea. 10
 - b. Describe the breeding objectives of Green gram. How these are practically followed during its improvement programme? 5+5
 - c. State the origin and evolution of jute. Discuss on the history and prospects of its interspecific hybridization. 4+6
 - d. Clearly discuss on hybrid seed production presently followed in sunflower. 10


