

Total Page: 01

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

PAPER: GPB 204

(BREEDING CEREALS, FORAGES & SUGAR CANE)

Full Marks: 50

Time: 2 Hours

THEORY

1. Answer any five questions from the following:

2×5 = 10

- a. What is maintainer line?
- b. State about Bt Maize.
- c. How many chromosome numbers are there for Pearl Millet & Sorghum?
- d. What do you mean by distant hybridization?
- e. Discuss on recurrent selection.
- f. What is Queen of cereals? State with variety.
- g. Why DUS testing is required?



2. Answer any five questions from the following:

4×5 = 20

- a. What is Genetic Engineering & Bt cotton? 4
- b. What are the basic objectives of present day rice breeding? 4
- c. What is QPM? Name two QPM maize varieties. 2+2
- d. Describe about planting ratio for hybrid Rice production. 4
- e. What are the origin of Maize and Finger Millet? 4
- f. Explain the origin of hexaploidy wheat. 4
- g. What is roguing? Why it is required? 1+3

3. Answer any two questions from the following:

10×2 = 20

- a. What are the breeding objectives of wheat? How disease resistance can be incorporated in a promising variety? 4+6
- b. Describe in details about breeding method of maize. 10
- c. Clearly outline the crop improvement programme normally followed in sugarcane. 10
- d. Briefly describe the breeding methods followed in development programme of pearl millets.
