

2025

**M.Sc. in Agriculture
1st Semester Examination**

AGRONOMY

Paper : AGRON-506

[Agronomy Major Cereals and Pulses]

Full Marks : 100

Time : Three Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Group - A

Answer any five questions : 2×5=10

1. What is the scientific name and family of Sorghum?
2. Name two wilt-resistant varieties of Pigeonpea.
3. What are the critical stages for irrigation in Maize?
4. Which chemical causes "Sorghum poisoning"?
5. Which crop is known as the "Queen of Cereals"?
6. Write the seed rate for wheat under normal irrigated conditions.

P.T.O.

(2)

7. Name two diseases of Barley.
8. Mention the protein content in Green gram.

Group - B

Answer any *four* questions : $5 \times 4 = 20$

9. Differentiate between *Indica* and *Japonica* rice varieties.
10. Discuss the fertilizer management in R-W system.
11. Write a short note on the "SRI method" of Rice cultivation.
12. Explain the classification of Barely based on the arrangement of spikelets (rows).
13. Briefly describe the climatic requirements for growing Black gram.
14. Write a note on nutrient management in irrigated wheat.

Group - C

Answer any *five* questions : $10 \times 5 = 50$

15. Discuss the cultivation of Pigeonpea under the following heads :
 - (a) Sowing time and Seed rate
 - (b) Weed management $5+5$

16. Discuss the cultivation of Rice under the following heads :
5×2=10

- (a) Wet nursery preparation
- (b) Fertilizer management

17. Write short notes on (any *four*) : 2½×4=10

- (a) Golden Rice
- (b) Uses of Barley
- (c) Bushening of rice
- (d) Green gram varieties
- (e) Green manuring

18. Write the major constraints of cereals and pulses production in India.

19. Discuss the different physiological stages of rice in detail.

20. Write down climatic requirement, and sowing time of Green gram.

21. Classification of Maize according to grain.

Internal Assessment : 20 marks
