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**M.SC. SEMESTER-I EXAMINATION, 2023  
(AGRICULTURE) IN AGRONOMY**

PAPER: AGRON 506

(AGRONOMY OF MAJOR CEREALS AND PULSES)

Full Marks: 50

Time: 2 Hours

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

**GROUP-A**

1. Answer any **FIVE** questions from the following: **2 X 5 = 10**

- Write down the major pulse crops in this region.
- What do you mean by beaushening?
- Why wheat is considered as 'King of cereals'?
- What do you understand by Aerobic rice?
- Write down the Principles of SRI.
- Mention the Importance of millet.
- Mention the Economic importance of black gram.
- Mention the CRI stage of wheat.

**GROUP-B**

2. Answer any **FOUR** questions from the following: **5 X 4 = 20**

- Differentiate between three races of rice.
- Mention the reasons for lower productivity of pulses in India.
- Differentiate between inbred and hybrid rice. How hybrid rice introduced in India- Discuss. (2+3)
- Discuss the nutrient management in transplanted rice.
- Explain the principles of SRI.
- What are the major strategies adopted to improve pulse productivity.
- Roles of biofertilizer in cereals production.
- Why productivity of *kharif* maize is lower than the *rabi* maize?

**GROUP-C**

3. Answer any **TWO** questions from the following: **10 X 2 = 20**

- What are the major problems in rice-wheat cropping system in India? Suggest any strategies to improve its overall production in India. 6+4
- Write down the soil requirement, climatic requirement, nutrient, water and weed management of arhar/greengram. 10

(P.T.O.)



(2)

- c. Mention the importance rice in Indian agriculture production system. Classify cultivated maize. Write down the role of Rhizobium in pulse production. 3+4+3
- d. Write short note (any four): (2.5 x 4 =10)
- i. Golden rice; ii. Aromatic rice; iii. QPM, iv. Aerobic rice v. Foulng crop vi. Paira cropping

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