

**M.Sc. Semester-I Examination, 2022  
(AGRICULTURE) IN AGRONOMY**

PAPER: AGRON 506

(AGRONOMY OF MAJOR CERALS AND PULSES)

**Full Marks: 50**

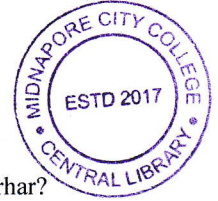
**Time: 2 Hours**

**GROUP-A**

**1. Answer any FIVE questions from the following:**

**5 X 2 = 10**

- Write any two hybrid QPM varieties of maize?
- Why maize is replaced in wheat in Eastern India.
- Write two salt tolerant varieties of rice
- What is the origin of rice, wheat, maize and chickpea?
- Why maize is called as 'queen of cereals'?
- Give seed rate of rice for broadcasting and drilling.
- What is the protein percentages of maize, wheat, chickpea and arhar?
- Briefly write the use of *Rhizobium*.



**GROUP-B**

**2. Answer any FOUR questions from the following:**

**4 X 5 = 20**

- Briefly discuss on classification of maize.
- What are the major constraints in pulse production in India?
- What is the objective of puddling.
- Explain kera and pora method of sowing in wheat.
- Explain the principles of SRI.
- What are the major strategies adopted to improve pulse productivity.
- Roles of biofertilizer in cereals production.
- Briefly discuss on golden rice and baby corn.

**GROUP-C**

**3. Answer any TWO questions from the following:**

**2 X 10 = 20**

- Differentiate between three races of rice. Briefly discuss the Dapog method of nursery in rice. (6+4)
- Write down the soil requirement, climatic requirement, nutrient, water and weed management of chickpea/ green gram.
- Mention the importance of wheat/maize in India. Write briefly on integrated nutrient, water and weed management in wheat/maize. (4+6)
- Write short note (any four): (2.5 x 4 =10)
  - Brown manuring;
  - Nipping;
  - QPM;
  - Beaushening;
  - Fouling crop.