

Roll No.

Total No. of Pages: 02

Total No. of Questions: 09

**B.Sc. (Agriculture) (2014 Onwards) (Sem. – 4)**  
**PRINCIPLES OF AGRONOMY-II (Rabi Crops)**

**M Code: 72753**

**Subject Code: BSAG-401**

**Paper ID: [72753]**

**Time: 3 Hrs.**

**Max. Marks: 60**

**INSTRUCTIONS TO CANDIDATES:**

1. **SECTION-A is COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **FIVE** questions carrying **FIVE** marks each and students have to attempt any **FOUR** questions.
3. **SECTION-C** contains **THREE** questions carrying **TEN** marks each and students have to attempt any **TWO** questions.

**SECTION A**

1. Define the following:
  - a) Intensification
  - b) Mandate
  - c) Soil productivity
  - d) Medicinal crops
  - e) Seed inoculation
  - f) Weather
  - g) Irrigation
  - h) Productivity
  - i) Weed management
  - j) Rabi crops

## SECTION B

2. Define the term herbicide resistance and how resistant biotype of *Phalaris minor* affects the wheat yield in Rice-Wheat cropping system.
3. Discuss the geographical distribution of wheat in North West plain zone of India with special reference to the area and production of Punjab and Haryana state.
4. Discuss the classification of crops on the basis of climatic conditions and explain the role of mulches during low temperature especially in winter season.
5. Enlist varieties, date of sowing, seed rate, fertilizer application, herbicide used and irrigation practices for chickpea crop?
6. Discuss the package of practice for potato crop.

## SECTION C

7. Discuss in detail the role of International Agricultural Research Institutes in India and why the need to establish these institutes in India.
8. Discuss in detail the agronomic practices for the cultivation of berseem crop.
9. Discuss the role of biodiversity for better resource management in relation to farm cropping system.