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Total No. of Pages: 02

Total No. of Questions: 09

**B.Sc. (Agriculture) (2014 & Onwards) (Sem. – 3)**

**PRINCIPLES OF AGRONOMY – I**

**M Code: 72551**

**Subject Code: BSAG-301**

**Paper ID: [72551]**

**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) Planting geometry
  - b) Crop establishment
  - c) Fibre crops
  - d) Zero tillage
  - e) Soil productivity
  - f) Minor crops
  - g) Cultural practices
  - h) Rhizobium
  - i) Climate
  - j) Weather

## **SECTION B**

2. How optimum population plays an important role in crop productivity? Support your answer with suitable examples.
3. Discuss the economic classification of crops in detail and also discuss the role of farm economist in present scenario of Punjab state.
4. How direct seeded rice (DSR) helps environment from ecological aspect? Enlist different major weeds which are problematic in DSR cultivation.
5. Enlist varieties, date of sowing, seed rate, fertilizer application, herbicide used and irrigation practices for soybean crop.
6. Discuss the package of practice for cowpea fodder crop.

## **SECTION C**

7. Discuss in detail the agronomic practices for the cultivation of groundnut crop.
8. Discuss the role of biodiversity for better resource management in relation to farm cropping system.
9. Discuss in detail the role of agronomist in enhancing the crop productivity under dry land farming situation.