Roll No.							Total No. of Pages: 02
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Total No. of Questions: 09

# B.Sc. Agriculture (2014 & onwards) (Sem. – 2) WATER MANAGEMENT AND MICRO IRRIGATION

M Code: 72358 Subject Code: BSAG-203 Paper ID: [72358]

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) Critical period
- b) Irrigation efficiency
- c) Mulching
- d) Soil erosion
- e) Water management
- f) Irrigation
- g) Scheduling irrigation
- h) Evapotranpiration
- i) Drainage
- j) Effective rainfall

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### **SECTION B**

- 2. Quantify the water requirement for Wheat and Sunflower crop.
- 3. How scheduling of irrigation plays an important role in crop productivity?
- 4. Discuss the water resources of Punjab and its role in present scenario.
- 5. How irrigation changes the micro-environment in crops?
- 6. Define the term conjuctive use of water and discuss its role in tillage and irrigation methods in efficient management.

### **SECTION C**

- 7. How the efficient drainage helps in making the ecosystem sustainable and productive?
- 8. How different methods of irrigation help in increasing the crop productivity? Describe in details about the surface and sprinkler methods of irrigation.
- 9. How an agronomist plays an important role in enhancing the water use efficiency (WUE) without affecting the crop yields?

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