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Total No. of Pages : 02

Total No. of Questions : 09

B.Sc. Agriculture (2014 &amp; Onwards) (Sem.-2)

**WATER MANAGEMENT AND MICRO IRRIGATION**

Subject Code : BSAG-203

M.Code : 72358

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTION 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 has to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

**SECTION-A****1. Define the followings :**

- a) Consumptive use of water
- b) Irrigation requirement
- c) Permanent wilting point
- d) Potential Evapo-transpiration
- e) Surface drainage
- f) Infiltration velocity
- g) Weirs
- h) Water use efficiency
- i) Effective rainfall
- j) Fertigation



**SECTION-B**

2. Discuss the criteria for scheduling irrigation or approaches for irrigation scheduling.
3. Explain the different measuring structures used for measuring irrigation water.
4. Discuss the process of absorption of moisture by crops.
5. Write a short note on water resources and irrigation development in India and Punjab.
6. Briefly discuss the role of plastic mulching used in crop production.

**SECTION-C**

7.
  - a) Define Drip Irrigation. Discuss the advantages and limitations of drip irrigation.
  - b) Discuss the water management techniques used in rice, wheat, maize, cotton, mustard, mango and tomato.
8. Define Drainage, its principle and discuss its types along with advantages. Also, explain the causes of bad drainage.
9. Explain the crop water requirement and factors affecting the crop water requirement along with critical stages for irrigation.

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**