

Roll No.

Total No. of Pages : 02

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B.Voc. (Agriculture) (Sem.-4)

**WATER MANAGEMENT AND MICRO IRRIGATION**

Subject Code : BVAG-401-18

M.Code. : 91616

Date of Examination : 18-07-22

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. Write briefly :

- a) Soil moisture constant
- b) Permanent wilting point
- c) Evapotranspiration
- d) Drainage coefficient
- e) Irrigation water requirement
- f) Field water use efficiency
- g) Virtual water use
- h) Green water
- i) Tensiometer.
- j) Microirrigation

## SECTION-B

2. Explain different water resource of India and Punjab.
3. Define soil water potential. How it is related to different soil types?
4. What is hysteresis loss of water? How it vary according to type of soil?
5. Explain percolation, infiltration and seepage.
6. How plant indicators are helpful in scheduling the irrigation?

## SECTION-C

7. a) What is irrigation water use efficiency? Explain different types of efficiencies used in irrigation.  
b) On what different factors irrigation water use efficiency depends?
8. What are soil moisture constants? Explain its all types.
9. a) Discuss about the water requirements of potato, tomato, okra, mango and kinnow.  
b) What is suitable irrigation method for horticulture plants and why?

**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.**