

Roll No.

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Total No. of Pages : 02

Total No. of Questions : 09

B.Voc. (Agriculture) (Sem.-3)

FUNDAMENTALS OF SOIL AND WATER ENGINEERING

Subject Code : BVAG304-18

M.Code : 90877

Date of Examination : 02-01-23

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) Bench mark
 - b) Dumpy level
 - c) Meter Gate
 - d) Positive displacement pump
 - e) Rill erosion
 - f) Emitter
 - g) Gravity inlets
 - h) Bench terrace
 - i) Cavitation
 - j) Check line

SECTION-B

2. Define surveying and explain chain surveying.
3. Classify the Erosion and explain Gully Erosion.
4. Discuss the different components of the underground pipeline system.
5. Explain the different characteristics of the contour.
6. What is specific speed of pump? Compute the specific speed of the centrifugal pump at its best point of efficiency discharges 0.03 cubic metres of water per second against a total head of 40 m when the speed is 1450 rpm.

SECTION-C

7. What is drip irrigation? Write down its advantages and explain the different components of drip irrigation system in detail.
8. Explain the factors affecting water Erosion and write down mechanics of water Erosion.
9. Define weirs and explain the different types of weirs in detail.

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.