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Total No. of Pages: 02

Total No. of Questions: 09

B.Voc. (Agriculture) (Sem. – 3)

FUNDAMENTAL OF SOIL AND WATER ENGINEERING

Subject Code: BVAG304-18

M Code: 76777

Date of Examination : 14-01-2023

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 short notes on the following:

- a) Radiation
- b) Cipoletti weir
- c) Field strip cropping
- d) Reciprocal leveling
- e) Gullies
- f) Vertical angle
- g) Conservation bench terrace
- h) Centering
- i) Outlet valves
- j) Cross sectioning leveling

SECTION-B

2. Explain the steps involved in intersection and traversing types of plane surveying.
3. List advantages and adoptability of furrow irrigation method.
4. Discuss the advantages of conservation of bench terracing.
5. What are different components of stream channel erosion?
6. What is plane table surveying and when you will recommend it?

SECTION-C

7. Describe different types and accuracy of orifices used for discharged measurement.
8. Explain different types of bunds used for soil and water erosion.
9. What is interpolation of contours? Describe any two methods of interpolation of contours.

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