

**Roll No.**

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**Total No. of Pages : 02**

**Total No. of Questions : 09**

## **B.Voc. (Building Construction and Technology) (Sem.-4)**

# SURVEYING-II

**Subject Code : BVBCT-402-20**

**M.Code : 91638**

**Date of Examination : 07-07-22**

**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) What is a contour?
  - b) What is water-shed line?
  - c) Define the term face right and face left.
  - d) When is telescope said to be inverted?
  - e) What is stadia theodolite?
  - f) Define GPS.
  - g) What is multiplying and additive constant?
  - h) Define degree of a curve.
  - i) What is a well conditioned triangle?
  - j) What is forward and back tangent in a circular curve?

## **SECTION-B**

2. Describe direct method of locating contours.
3. Derive an expression to determine difference in elevation between the instrument station and object, when base of the object is inaccessible and instrument stations not in the same vertical plane as the elevated object.
4. What are the functions of a transition curve? What conditions should be fulfilled by a transition curve introduced between the tangent and circular curve?
5. Discuss how simple circular curve can be set out by offsets from the tangent.
6. Explain the working of a planimeter.

## **SECTION-C**

7. Describe with the help of sketches the characteristics of contours.
8. Discuss how simple circular curve can be set out by perpendicular offsets from the tangent.
9. What do you understand by remote sensing? Explain with the help of a neat sketch, an idealized remote sensing system.

**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.**