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## **CE-112-CBCS**

### **B.E. I & II Semester**

Examination, June 2020

### **Choice Based Credit System (CBCS)**

### **Introduction to Surveying**

*Time : Three Hours*

*Maximum Marks : 60*

**Note :** i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) Write any three objects of surveying.  
b) What do you mean by ranging?
2. a) What are different tape corrections and how are they applied?  
b) Explain how will you continue chaining past the following obstacles  
i) a pond ii) a hill
3. a) What do you understand by Errors in Chaining? Explain.  
b) Discuss various obstacles in Chain Survey?
4. a) What is Local Attraction? Explain.  
b) Draw a neat sketch of "Theodolite" and also explain its uses.
5. Define:  
a) EDM  
b) GIS and GPS

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6. Convert the following bearings from one system to another.

- i)  $270^\circ$
- ii) N  $43^\circ 30'$  W
- iii)  $-319^\circ 45'$

OR

List down the sources of different types of error in compass survey.

7. Define:

- a) Contours
- b) Mass diagram
- c) Capacity curve
- d) Planimeter

OR

Draw the figure and show curvature and refraction corrections in levelling.

8. Write short notes on any four:

- a) Back sight
- b) Reduced Level
- c) Foresight
- d) Fly levelling
- e) Benchmark

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