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CE-112

Roll No.

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B.E. (All Branches) I Year II Semester

Examination, June 2016

Choice Based Credit System (CBCS) Introduction to Surveying

Time: Three Hours

Maximum Marks: 60

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- Attempt any five questions. All questions carry equal marks.
 - ii) Any missing data assumed suitably and stated clearly.
- 1. a) What is the meaning of Surveying? Enumerate its type. What are the principles of surveying?
 - b) What is GPS & GIS? Describe its applications. Also describe Electronic Distance Measurement in details.
- Enumerate various accessories of chain survey. Describe types of chains in details.
 - b) The total distance measured by 20 meter chain is 3000 m. After measuring 1000 m distance the chain was tested in laboratory and found to be 5 cm too short. At the end of work the chain is again tested and found to be 10 cm too long. Calculate the true length of line.
- What is direct and indirect ranging? Describe any one method of indirect ranging.
 - b) What is Chaining? Enumerates the different possible obstacles in chaining? Describe procedure for calculation for any one.

- What is bearing? Describe WCB and RB. Describe the working of Prismatic compass in details.
 - b) The following bearing were observed while traversing with a compass. At which station do you suspect local attraction? Find the correct bearings.

Line	FB	BB
AB	45°45'	226°10'
BC	96°55'	277°50'
CD	29°45'	209°10'
DE	324°30'	144°45'

- What is the principle of Plane table surveying? Describe the merits and demerits of Plane table surveying. Enumerates various accessories used in plane table surveying.
 - b) Describe the construction and working of Theodolite in details. What are its uses?
- What is the meaning of Leveling, Reduced level and Bench mark? Describe the types of Bench mark.
 - b) Enumerate different types of levels. Describe the construction and working of Dumpy level in details.
- 7. a) Define Simple, Fly and Reciprocal leveling. Also describe the booking procedure of a leveling work in level book.
 - b) The following consecutive reading were taken with a level and a 4.0 m staff on a continuously slopping ground at a common interval of 30 m 0.680, 1.645, 1.955, 2.430, 2.885, 3.480, 1.155, 1.960, 2.165, 3.400, 0.935, 1.110, 1.650, and 2.700. The reduced level of the first point A was 100.000 m. Calculate the RL of all points.

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PTO

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