USN						

1667

09ENG2.6

(10 Marks)

(10 Marks)

Second Semester B.Arch. Degree Examination, Dec.2014/Jan.2015 Surveying and Levelling

me: 3 hrs. Max. Marks: 1000 Note: Answer any FIVE full questions. Explain the classification of surveying. The area of the plan of an old survey plotted to a scale of 14m to 1 cm now measures 125cm. The plan has shrunk such that a line originally 18cm now measures 17.4cm. Find the shape scale and the true area of the field. (10 Marks) Explain reciprocal ranging. (06 Marks) A 20m chain was found to be 12cm too long after chaining a distance of 2500m. It was found to be 20cm of long at the end of day's work after charling a total distance of 4800m. Find the true distance of the chain was correct before the commencement of the work. (14 Marks) Explain the following term respect to char Survey station ii) Base line Tie line iii) Check line iv) v) Oblique offset. (10 Marks) Explain any two instruments used to set out right angle to a chain line. (10 Marks) Explain any one method the methods of plane traversing on intersection tabling. (12 Marks) Explain plane table accessories. (08 Marks) 75. 70 Por Explain the following terms in leveling: i) Bench mark. ii) Heigh of instrument. ck sight. urning point. Fore sight. (10 Marks) The following staff readings were observed successively with a dumpy level, the instrument having been moved after third, sixth and eighth readings. 2.228, 1.606, 0.988, 2600, 2.864, 1.262, 0.602, 1.982, 1.044, 2.684 metres. Enter a page of a level book and calculate BLS of points by rise and fall method. Explain the following terms related to the odolite: Vertical axis. i) ii) Transiting. Swinging the telescope. iii) iv) Face right observation.

Explain how do you measure horizontal angle by repetition method.

The line of collimation.

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Explain briefly any Contour intervals.

Map and plan.

Temporary adjustments of the Reciprocal levelling.

e. Oties of contour maps.

Advantage of the state of the 7 With neat sketches, explain the different characteristics of contours. (10 Marks) a.
b. Map and .
Temporary adjustme.
Reciprocal levelling.
Uses of contour map Lindhy confidential documential