Roll No.

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SURVEYING-I CE-207N

Time: Three Hours]

[Maximum Marks: 75

Note: Attempt Five questions in all, selecting at least one question from each Unit. Assume any missing data. All questions carry equal marks.

Unit I

- Differentiate between whole circle bearing and quadrantal bearing system, convert the following whole circle bearing into quadrantal bearing and quadrantal bearing into whole 15 circle bearing.
 - (2) 20° (2) 150° (2) 210° (2) N25°30'W (2) N30°30'W
- 15 Write the type of correction in chain or tape.

Unit II

- Write the classification of direct levelling. 7 3. (a)
 - The following reading were taken on a continuous (b) sloping ground with 4 meter staff 0.780, 1.535, 1.955, 2.985, 3.480, 1.155, 2.365, 3.640, 0.935,

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1.630, 2.545 the R.L of first A was 100 determine R.L of all the other points by both the method and also draw the profile diagram. 8

What do you understand by contour and also write down the characteristics of contours. 15

Unit III

- Write down all the method used for the measurement of 15 angles in theodolite traverse.
- Stadia reading were taken with a theodolite on a vertical staff with the telescope inclined at an derpression of 3°30'. The staff reading were 2.990 and 1.120. The R.L. of the staff is 100 m and H.I is 1.40 m. What is the R.L. of the ground at the instrument? Take the constant 100 15 and 0.

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Unit IV

- Explain the various methods of setting out the simple curves with neat diagram. 15
- Discuss the transition curves and what are the requirements of transition curves.
 - Calculate the ordinates at 10 m intervals for a circular curve. The long chord is 60 m and the radius is 150 m. 8

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