

Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice. Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

- 6 Explain the temporary adjustment of a leveling instrument. a.
 - The following readings were taken from a leveling instrument using a 5m staff at an interval b. of 25m. 0.545, 1.390, 1.535, 2.985, 3.085, 4.670, 0.815, 2.030, 3.150, 4.575. The RL of first point was 65.000m. Enter the staff readings in level book and compute the RL of all points. Also plot the ground profile and calculate the depth of cutting or filling if a pipe has to be laid with a reduced level of 63.000m at start point and there onward at an upward gradient of (14 Marks) 1 in 100?

Module-4

- What is contour? What are the uses of contour? 7 a.
 - Explain one method of direct and indirect contouring with sketch. b.
 - What are the characteristics of contours? с.

OR

- Explain method of repetition and re-iteration used to measure horizontal angle using 8 a. (10 Marks) theodolite.
 - What are the components of a total station? List the uses of total station. b.
 - Write a note on GPS. C.

- Explain in detail, how the observation and analysis of the following factors are carried out. 9 a (12 Marks) ii) Soil iii) Climate. i) Topography (08 Marks)
 - b. Explain aerial and terrestrial photogrammetry.

OR

- Explain different types of survey maps. 10 a.
 - List and explain 6 symbols used in survey maps. b.
 - With a neat sketch, briefly explain the setting out of center line of a building. C.

(06 Marks)

(04 Marks)

(06 Marks)

(06 Marks)

(06 Marks)

(08 Marks)

(06 Marks)

(08 Marks)

(06 Marks)

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