B. SC. GEOGRAPHY 1st YEAR 2nd SEMESTER EXAMINATION 2023

Subject: Surveying and Mapping

Paper: SC/GEOG/UG/CORE/PR/04

Time: 2 hours Full Marks: 20

1. a) Make a Dumpy Level survey along the given line AB of 10 m length. Prepare a field workbook and determine the RL of points marked at 2 m interval. Bench mark at point A is 10.500 m. Draw a longitudinal profile of the given line. The instrument is to be shifted after the third point.

b) Calculate the gradient from the first point to last point of line AB.

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OR

- c) Measure the height of the given building using the Transit Theodolite through the base inaccessible method considering same vertical plane.
- 2. Prepare an average slope map (Wentworth's Method) of the assigned grid framework of 10 cm × 10 cm from the given topographical map and interpret it.