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b. A level is set up on an extended line BA in a position 70m from A and 100m from B, 1.684m on a staff held at A and 2.122m on a staff held at B, the bubble having carefully brought to the centre of its run before each reading. It is known that the redo: levels of the tops of the pegs at A and B are 89.62m and 89.222m respectively. Find:

i) The Collimation error.

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ii) The Reading that would have been obtained has there been no Collimation error.

(12 Marks)

(06 Marks)

(10 Marks)

Module-4

7 a. Explain the working operations of plane table.

- b. Explain Radiation and Traversing methods of plane table surveying with sketches. (08 Marks)
- c. Describe with sketches two-point problem in plane table surveying. (06 Marks)

OR

8 a. Explain briefly Intersection and Resection Methods of plane table surveying with sketches. (10 Marks)

b. Describe the different Errors in plane table surveying.

Module-5

- a. What are the General methods of determining Areas? (04 Marks',
- b. A series of offsets were taken from a Chain line to a curved boundary line at Intervals of 15 meters in the following order 0, 2.65, 3.8, 3.75, 4.65, 3.6, 4.95, 5.85m. Computer the area between the chain line, the curved boundary and the end offsets by
 - i) Average ordinate rule
 - ii) Trapezoidal rule
 - iii) Simpson's rule.

(16 Marks)

(07 Marks)

(08 Marks)

OR

10 a. Explain with sketch planimeter.

- b. What are the methods of locating Contours in Surveying?
- c. Explain the calculation of the volume of the capacit y of a reservoir with any one relationship. (05 Marks)