

20/09/14

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/  
MANAGEMENT/COMMERCIAL PRACTICE — APRIL, 2018

**SURVEYING - II**

[Time : 3 hours

(Maximum marks : 100)

**PART — A**

(Maximum marks : 10)

Marks

I Answer *all* questions in one or two sentences. Each question carries 2 marks.

1. Define parallax.
2. What are the total co-ordinates of a point ?
3. Name the principle methods of plotting a traverse survey.
4. What is the function of an anallactic lens in a tacheometer ?
5. What is the basic principle of geodimeter measurement ?

(5 × 2 = 10)

**PART — B**

(Maximum marks : 30)

II Answer any *five* of the following questions. Each question carries 6 marks.

1. State on the following lines of a theodolite.  
(a) Vertical axis (b) Line of collimation (c) Axis of altitude level tube.
2. What is the reiteration method of measuring a horizontal angle ? Name any four errors eliminated by reiteration method.
3. How the area of a traverse is calculated by independent co-ordinate method ?
4. The following observations were made to determine the RL of the top of a tower at a point A.

<i>Instrument at</i>	<i>sight to</i>	<i>vertical angle</i>	<i>Remark</i>
B	A	+25°30'	Staff reading on BM = 1.250
C	A	+16°20'	Staff reading on BM = 1.150

RL of BM = 152.260, BC = 30M. Find RL of A.