c16-c-304



- **5.** A theodolite was set up at a distance of 50 m from the base of a pole. The vertical angle measured to the top of pole was 12° 40'. Determine the reduced level of top of chimney if the backsight taken on a benchmark of RL + 100.000 m was 1.145 m.
- **6.** List any three uses of Tacheometry.

/ 6225 \* [ Contd...

- \*7.

- Instructions : (1) Answer any five quest C.I.s. (2) Each question carrientie (3) Answers should the valuation in Explain the procedure for the procedure for
  - 12.
  - InPo

\*

14.

Station	Staff station	Vertical angle	Hair readings	Remarks
А	BM	-6°00'	1.100,1.153,2.060	RL of BM is 976·00 m
	В	+8°00'	0.982,1.085,1.185	

Determine the gradient from a point A to a point B for the following observations made with a tacheometer fitted with a anallatic lens. The constant of the instrument was 100 and the staff was held 51

Instrument station	Staff station	Bearing	Vertical anguit	Hair readings
Р	А	134°	+1622'	1·360,1·915,2·470
	В	224°	TD''	1.065,1.885,2.705

- Two straights PQ and QR are connected by a circular curve of 250 m radius. Calculate the five connents of the curve if the deflection angle is 30°.
- Two roads intersect at **o** chat to be connected by a Two roads intersect at Chainage of 1200 m. These two roads are to be connected by a comple circular curve of 250 m radius. Calculate 17. the data necessary cost out a curve by the method of offsets from xplain, the procedure for traversing using Total station. chords produce the deflection angle is 30° and the peg interval 30 m. The chain used is of 30 m.

 $\star \star \star$