

KDK COLLEGE OF ENGINEERING, NAGPUR

Department of Civil Engineering

Session 17 – 18

Semester IV

ASSIGNMENT NO. 2

Subject:- Surveying - I

1. A level was tested by the two-peg method and following results were observed. Calculate the staff readings on A and B to give a horizontal line of sight.

Instrument at	Staff Reading at		Remark
	A	B	
			Distance AB = 100m.
C	1.150	1.795	C is exactly mid-way between A and B
D	1.538	1.933	D lies on BA produced and 20m behind pt. 'A'

2. List out the various methods of contouring and explain any one method in detail with neat sketch
3. Derive the expression to find the distance and elevation of object when the base of object is inaccessible. Consider instrument and object lies in the same vertical plane.
4. What are the permanent adjustments of theodolite? Explain any one adjustment in detail.
5. List out the various methods of measurement of horizontal angle by using theodolite and explain any one method in detail.