

St. Aloysius Institute of Technology, Jabalpur

Assignment-II of I Semester Civil Engineering

Subject: Basic Civil Engineering Subject Code: BT-2004

Q1. What do you understand by “Bearing of a line”?

Q2. What is local attraction? How it is detected at a station?

Q3. Describe: i) Forward Bearing ii) Back Bearing

Q4. Convert the following Whole Circle Bearing. into Quadrantal Bearing:

(i) N 35° 10' W ii) S 88° 30' E

Q5. The following bearings were observed in running a closed traverse. Draw the traverse first and at what stations do you suspect the local attraction. Determine the correct bearings if the inclination was 5° 10' E. What are the corrected bearings?

Line	F.B.	B.B.
AB	75° 05'	254° 20'
BC	115° 20'	296° 35'
CD	165° 35'	345° 35'
DE	224° 50'	44° 05'
EA	304° 50'	125° 05'

Q6. In a closed traverse the following included angles were measured by means of a compass:

A=132°, B=116°, C=106°, D=92°, E=99° 50'.

If F.B. of the line AB is 88°, find bearing of all remaining sides.
