Hoce Helal . Ath	MID SEMESTER Subject Code: 2130601 Subject Name: SURVEYIN Time: 10:00 TO 10:50	<i>EXAMINATION, SE</i>	PTEMBER-2016 Date: 26-09-2016 Sem : 3 <sup>RD</sup> CIVIL Total Marks: 20
Ins 1. 2. 3.	structions: Attempt all questions. Make suitable assumptions wherev Figures to the right indicate full ma	/er necessary. arks.	
QUE.1	<ul><li>(A) Objective Type Questions:</li><li>1. The Principle of Plane T</li><li>(a) Triangulation</li></ul>	Table is     (b) Traversing,	(c.) Parallelism
	<ol> <li>Fine adjustment in a the (a) Tangent Screw</li> </ol>	eodolite is done by (b) Clamp Screw	(c) Foot Screw
	<ul> <li>3. The combined correction is given by</li></ul>	on for earth's curvature an <u>.</u> (b) 0.0785 D <sup>2</sup>	nd refraction in linear measurement (c) 0.0112D <sup>2</sup>
	(B) Define 1. Transiting 2.L	ine of Collimation	3. Swinging the telescope
QUE.2	(A) Derive the equation to find out the elevation of the object, if the Base of The Object is Inaccessible, the instrument stations and elevated object are in the same vertical plane and instrument axes are at the same level.		
	(B) Enlist Various methods of Plane	table surveying and expl	ain any one method with neat sketch.
	(B) Draw sketch of Transit Vernier	theodolite and mention c	omponent parts.
QUE.3	<ul><li>(A) Explain Temporary adjustment of theodolite and also write uses of theodolite.</li><li>(B) The following are the lengths and bearings of the lines of a traverse ABCD. Calculate consecutive coordinates of points of a traverse and also find out the closing error and its direction.</li></ul>		
	Line	Length (m)	Bearings
	AB	235.10	338°20'
	BC	317.40	<u>82°22'</u>
	CD	215.00	167°

(B) An Instrument was setup at A and the angle of elevation of the top of an electrical pole BC 4 was 31°20'. The horizontal distance between A and B, the foot of the pole was 378.80 m. Determine the RL of top of the pole C, if the staff reading held on BM (RL 180.0) was 3.145 m. with telescope in horizontal plane.