BICE-004

B.TECH IN CIVIL ENGINEERING (BTCLEVI) S 0162 **Term-End Examination**

June, 2012

BICE-004 : ADVANCE SURVEYING

Time : 3 Hours					aximum	Marks :	: 70	
Note	: Ai is	tempt an permitte	ny seven questi ed.	ons. Use o	f scientif	ic calculi	ator	
<u> </u>	Expl two o (a) (b)	Explain Tangential method for the following wo cases : a) When both angles are angles of elevation b) Both angles are angles of depression					10	
2.	(a) (b)	What survey Explair	do you unde ? 1 three - poin	erstand by	y shore	line	5 5	
3.	A tacheometer is set up at an intermediate Pt. on 10 a traverse course PQ and following observations are made on a vertically held staff :							
	Staf	station	Vertical angle	Staff Intercep	Axial l t Readi	nair ngs		
		Р	+ 8° 36′	2.350	2.10	5		
		Q	.+ 6° 6′	2.055	1.89	5		
	The instrument is fitted with an anallactic lens and the constant is 100. Compute the length of							

PQ and reduced level of Q, that of P being 321.50m.

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4.	(a)	What are verticles curves ? Explain with is types.	5			
	(b)	Describe length of curve:	5			
5.	What is a transition curve ? Why it is used ? 10 Define shift of a curve.					
6.	Differentiate among primary secondary and tertiary triangulation. What is well condition triangle and strength of figure ?					
7.	Explain about the EDM methods and its principle.					
8.	What are the various co-ordinate systems ? Explain any two with diagram.					
9.	What do you understand by flight planning for aerial photography ?					
10.	Write (a) (b) (c)	short notes on <i>any two</i> of the following. Simple Circular curves. Data Acquisition Techniques. Signals and Towers.	10			

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