Total No	o. of Questions : 6]	80	SEAT No. :			
P8	TE/Insen	1./APR-11	[Total No. of Pag	ges: 2		
T.E. (Civil)						
301007: ADVANCED SURVEYING						
(2015 Course) (Semester - II)						
			,			
<i>Time</i> : 1			[Max. Marl	ks:30		
	ions to the candidates:			\sim		
1) Attempt Q.No. 1 or Q.No. 2, Q.No. 3 or Q.No. 4, Q.No. 5 or Q.No. 6.						
2)	Neat diagrams must be drawn where	-				
3)	Figures to the right indicate full mo	arks.	.Ca '			
<i>4</i>)	Assume suitable data, if necessary.		28			
Q1) a)	Explain in brief the various tria	angulation fig	ures commonly adopte	d and		
~ / /	compare its merits and demeri	-	6	[6]		
b)	Enlist and explain types of err	ors in space b	ased positioning syste	ms.		
,	8			[4]		
	•	0,10.				
	Q	R				
Q2) a)	Two stations A & B are 110 kg	m apart. The	elevation of A is 422 n	n and		
Q2) a)	that of B is 705 m. In the line					
	peak C, 74 km from A has the			_		
		. 1				
	of sight from A to B clears the	_		(/ / "		
	above ground level. Determ	ime the heig	gnt of the signal at i	5 101		
	intervisibility.			Fol		
b)	Explain factors governing th	e positioning	g accuracy in Space E	Based		
,	Positioning System.	1		[4]		
	9.		O, VX			
•	V*		0, 0.			
O(3)	During a sounding fieldwork	A Rand Cu	vera stations on the sho	ora D		

Q3) a) During a sounding fieldwork, A, B and C were stations on the shore. P was sounding station. The angles measured were angle APB=32°46' and BPC=41°24'. The three shore stations are located by traversing. AB=596 m, BC=678 m, and angle ABC=I32°52'. Find location of P by calculating distances PA, PB, and PC, if P is on the opposite side of line AC. [6]

b) Enlist the methods of locating sounding and explain any one in detail.

[4]

OR

Q4) a)	Derive the analytical solution of three point problem.	[0]		
b)	Explain the method for measurement of tide levels in hydrographic su	rvey.		
		[4]		
Q5) a)	What is GIS? Explain the components of GIS.	[5]		
b)	Explain raster and vector data used in GIS.	[5]		
	OR			
Q6) a)	Write a note on Geostationary and Sun-Synchronous Satellites.	[5]		
b)	Explain the use of electromagnetic spectrum in remote sensing and			
	significance of atmospheric windows.	[5]		
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