Total No	o. of Questions : 6] SEAT No. :			
<b>P8</b>	TE /Ingons /A DD 11 [Total No. of Pages : 2			
	TE/Insem./APK-11			
	T.E. (Civil)			
301007 : ADVANCED SURVEYING				
(2015 Course) (Semester - II)				
Time: 1	Hour] [Max. Marks: 30			
	ons to the candidates:			
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 diagrains must be drawn wherever necessary.			
3)	Figures to the right indicate full marks.			
<i>4</i> )	Assume suitable data, if necessary.			
<b>Q1</b> ) a)	Explain in brief the various triangulation figures commonly adopted and			
Q1) a)	compare its merits and demerits. [6]			
b)	Enlist and explain types of errors in space based positioning systems.			
	(4)			
	QR			
<b>Q2</b> ) a)	Two stations A & B are 110 km apart. The elevation of A is 422 m and			
	that of B is 705 m. In the line of sight between A & B, the intervening			
	peak C, 74 km from A has the altitude of 477 m. Check whether the line			
	of sight from A to B clears the peak with a minimum clearance of 3 m			
	above ground level. Determine the height of the signal at B for intervisibility.			
	intervisionity.			
b)	Explain factors governing the positioning accuracy in Space Based			
	Positioning System. [4]			
<b>Q3</b> ) 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]			

*P.T.O.* 

<b>Q4</b> )	a)	Derive the analytical solution of three point problem.	[6]
	b)	Explain the method for measurement of tide levels in hydrographic sur	vey.
			[4]
<b>Q</b> 5)	a)	What is GIS? Explain the components of GIS.	[5]
	b)	Explain raster and vector data used in GIS.	[5]
		OR	
<b>Q6</b> )	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]
		significance of atmospheric windows.  The state of atmospheric windows.  The state of atmospheric windows.	

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