Paper / Subject Code: 40402 / Surveying - II

	Time: 3 Hours Marks: 80	300
N.B.:	 (1) Question No 1 is compulsory. (2) Attempt any THREE questions from the remaining questions. (3) Assumptions made should me clearly stated. (4) Figures to the right indicate full marks 	
Q1. All questions are compulsory		20
a)	Distinguish between land survey and construction survey.	
b)	Distinguish between digital level and auto level	
c)	Distinguish between block contouring and radial contouring.	
d)	Distinguish between conventional theodolite and electronic theodolite.	3
Q2. (a	a) Explain with neat sketch various elements of simple curve and also derive the relation between	veen
	degree of the curve and its radius	10
Q2. (l	b) Explain the stepwise procedure to check the verticality of building.	10
Q3. (a	a) Two tangent intersect at chainage of 1230m the deflection angle being 30° calculate all the	data
	required for setting out a simple circular curve of 330m radius by Rankines method	10
Q3. (l	b) What is GPS? What are the advantages of space based positioning system and enlist the va	rious
	applications of GPS in surveying	10
Q4. (a)) What is transition curve? What are the requirements of an ideal transition curve? Enlist the	
	objectives of providing transition curve and mention the different types of transition curve.	10
	A 0.5% rising gradient meets -0.7% down gradient. The chainage and RL of intersection are and 375.50m respectively. Calculate the RL of the points on the curve if PI is 20m. The rate o of grade is 0.1% per 20m. Tabulate the results.	
Q5.(a)	Explain the method of radial contouring in detail with proper diagram that is performed during project	ng the 10
Q5.(b) What is electro digital theodolite? Explain all its field applications	10
Q6 . A	all questions are compulsory	20
(a)	Short note on site square.	
(b)	Explain 7/12 utara.	
c)		
(d)	Objectives of hydro graphic surveying.	
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