## **BACHELOR OF ARCHITECTURE (B.Arch.)**

## Term-End Examination June, 2016

## **BAR-056: TOPOGRAPHIC SYSTEMS**

Tim	ie:3 h	ours Maximum Marks : 7	Maximum Marks : 70				
Note: Attempt any five questions. All questions are of equa- marks. Use of calculator is permitted.							
1.	(a)	What are different types of errors? Illustrate your answer for the case of linear measurements with a tape.	7				
	(b)		7				
2.	(a)	What is total station? What are the accessories provided in it? Write its advantages.	7				
	(b)	,	7				
3.	(a)	Discuss temporary adjustments of a surveyor's compass.	7				
	(b)	A line AB was drawn to have a magnetic bearing of 26°30' in an old map when the declination was 2°30'E. Determine the magnetic bearing of the line of the present declination is 5°30'W.	7				

4.	(a)	Compare height of instrument method with rise and fall method. Which one is more accurate?					
	(b)	The following readings were taken during reciprocal levelling to find the difference in elevation between two points. Find the true difference in elevation between them. If the RL of P is 125-945 m, find RL of Q.					
		Instrument at	Р	Q			
		Staff at P	1.445	1.965			
		Staff at Q	1.625	2.015			
5.	(a) What is two point problem? Describe the procedure in detail.						
	f a plane 7						
6.	6. (a) What is the difference between a compastraverse and a theodolite traverse?						
(b) Explain Bowditch rule f balancing.					raverse 7		
7.	(a)	If the sensitivity of the bubble tube of a level is 30" of arc per division determine the distance of a point at which the combined curvature and refraction correction become numerically equal to the error induced by dislevelment of one division of the level tube.					
	7						
8.	Write (a) (b) (c) (d) (e)	e short notes on a Location of contone Principles of surv Tape corrections Designation of be Balancing of ang	our gradi eying earings	ent	owing: 3½x4=14		