Vivekananda College of Engineering & Technology, Puttur

[A Unit of Vivekananda Vidyavardhaka Sangha Puttur @]
Affiliated to VTU, Belagavi & Approved by AICTE New Delhi

CRM08 Rev 1.11 Civil 29/7/22

CONTINUOUS INTERNAL EVALUATION - 2

Dept:Civil	Dolli Darr	Sub:Advanced Surveying	S Code:18CV45	
Date:5/8/22	Time: 9:30-11:00	Max Marks: 40	Elective:N	

Note: Answer any 2 full questions, choosing one full question from each part.

ON		Quest	tions		Marks	RBT	CO's
			PART A				
1 a	Explain classification of triangulation.			8	L1	CO1	
	What are the important features to be considered in selection of site for a base line?					L2	CO1
c	From a Satelli station A, the f	te station S, 5. following direct	, 5.8m from main triangulation rections were observed.		9	L3	CO1
	A	0°	0'	0"			
	В	132°	18'	30"			
	C	232°	24'	6"			
	D	296°	6'	11"		1	
	The lengths of 3265.5m,4022 the directions						
			OR				
2 8	2 a Explain Satellite station and reduction to centre.				8	L2	CO
1	b Explain important points to be kept in mind while selecting triangulation stations.					L2	СО
LI.	c From an eccentric station S, 12.25m to the west of the				e 9	L	2 CC

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		main station B, the following angles were measured. LBSC= 76°25'32", LCSA= 54°32'20", . The stations S and C are to the opposite sides of the line AB. Calculate the correct angle ABC if the lengths AB and BC are 5286.5 and 4932.2m respectively.						
PART B								
3	a	Mention the advantages of total station and also explain the working principles of total station.	8	L2	CO4			
	b	Define remote sensing. Explain the stages of idealized remote sensing system.	8	L3	CO4			
	C	Explain the properties of electromagnetic waves and electromagnetic spectrum with neat sketches.	9	L2	CO4			
OR								
4	a	What is GIS? Explain the components of GIS.	8	L2	CO4			
		What is GPS? Explain the applications of GPS in civil engineering.	8	L2	CO4			
	c	What are the advantages of LIDAR technology?	9	L2	CO4			



