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

CONTINUOUS INTERNAL EVALUATION- 2

Dept: Civil Engg Sem / Div: 3 Sub: Basic Surveying S Code: 18CV35

Date: 13-01-22 Time: 9:30-11:00 am Max Marks: 50 Elective: N

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

Q				Questi	ons			Marks	RBT	COs
N				PART	ГА	1 139-	The state of the s			
12	What is closing error? Explain the Bowditch Method of adjusting the							8	L3	CO2
ŀ	traverse.		Q	L3	CO2					
b	In the fol	llowing tr d. Calcula	•	L	CO2					
	is omitte		Length		WCB					
	PQ		204			87°30'				1033
	QR		226	226 187 192		20°20' 280°00' 210°03'				
	RS	187								
	ST	192								
-	TP		?	?		?			1	
1	Calculate latitudes, departure and closing error for the following traverse conducted at a place.							9	L3	CO2
1	Line			Length(m)		WCB				
	AB		89.3	1		45°10'				
	BC	BC 21			9.76		72°05'			
1	CD	CD 151.			18		161°52'			
	DE		159.	10		228°43'				
	EA	-	232.	26		300°42'				136
				OR		4.40.379		-		3000
a	Explain c	losed and	8	L2	CO2					
b	Explain L	Explain Latitude and Departure in traverse surveying.							L2	CO2
c	Find out t		10	L3	CO3					
	Sl. No.	BS	IS	FS	HI	RL	Remarks			1-12
	1	4.390			X	X	Point 1			1
	2		X		100	192.000	Point 2			-
	3	3.910		6.520	X	X	Point 3		1	1
	4		5.390			191.620	BM			
	5		4.730			x	Point 4			
	6		х			203.300	Point 5 (staff inverted)			
	7	4.330		X	10000	X	Point 6			
	8	1	14/13/19	2.990		194.830	Point 7			

Prepared by: Sumanth A June 12

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CONTINUOUS INTERNAL EVALUATION- 2

-		PART B				laos
3	a Define the terms: i)Bacl; si	ght ii) Fore sight	iii) Intermediate sight	5	L2	CO3
,	iv) Turning Point v) Reduc					
	b The following Consecutive leveling staff on a continuo	e readings were tak	on along AB with a 5n interval of 20m.	112	L3	CO3
	0.385, 1.030, 1.925, 2.325,					
	The R.L of first point is 20 book form and work out the gradient of line AB.					
-	Explain reciprocal levelling	g.		8	L2	CO3
1	and the state of t	OIt				
4	Explain the temporary adju	stment of Dumpy lo	evel.	7	L2	CO3
_	Two points A and B, 1530; following reciprocal levels	8	L3	CO3		
1	Instrument at					
1		A	В		4	
	16	2.163	3.810			
	В	0.910	2.355			
-	The collimation error was difference between A and I					
0	The following staff reading instrument. The instrument Draw a page of level book H.I method if the R.L of the		L3	CO3		
	0.485, 1.020, 1.787, 3.395,					

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