NIL

SE CE.

(OLD COURSE)

12.12.14

**QP Code: 12334** 

(3 Hours)

Total Marks: 100

N.	B.:(	1) Que	estion No.1	is compul	sory				
	(2	2) Atte	empt any fo	our questio	ns out of re	maining qu	uestions.		
	(3	3) Illus	strate answ	vers with ne	eat sketches	wherever	required.		
	(4	Atte	mpt subqu	estions in c	order.		_		
1.	Atte	empt ar	y four :-						20
	(a)	Expla	in principle	es of surve	ying with si	uitable exa	mple.		
	114				p of magne				
	(c)	Highli	ights the cl	naracteristi	cs of conto	ur.			
	(d)	Differ	ence betwe	en trapezoi	idal and sin	pson's rule	for determination	on of area.	
	(e)	Expla	in method	of measuri	ng deflection	on angle us	ing theodolite.		
2.	(a)	Expla	in the obst	acles in cha	aining				6
	(b)	Expla	in reciproc	al Ranging	f				6
	(c)	(c) A line was measured by a 20m chain which was accurate before							. 8
							o be 6 cm too lo		
					chain was	found to be	e 14cm too long	, find the	
		true d	istance of	the line.					
									8
3.	(a)						ted and explain	the	0
	4.5				earing form				4.0
	(b)		The same of the sa		re observed			ž.	12
2		Line	AB	BC	CD :	DE.	EA		
		F.B	305°00'	75°30'	115°30'	165°30'	225°00'		
		B.B	125°30'	254°30'	297°00;	345°30′	44°00'		
		0.1	1 /	4 - 11 1	1:1		C41 41-		
		Calcu	late correc	ted bearing	and incipo	led angle of	f the travels.		
4.	(a)	Evalo	in the week	oug trmes o	f Bench ma	rks in leve	llina		6
4.					and Rise an				6
	(c)						ith a dumpy lev	rel along a	8
	(0)						nent was shifted		0
		VIIGILL	TITLE OF COL				TIVILE TYTES SILLING		
		chain	line at con	nmon inter	val of 15m.	The instrur	nent was shifted	after	

5. (a) State the fundamental lines of transif theodolite and explain the temporary adjustment of transit theodolite.

where the RL is 112.620. Find the RL of all point and apply usual check.

0.860,

2.390

3.125, 2.760,

and 3.035m

(b) Calculate latitudes, departures and closing error for the following obverse and adjust using Bowditch Rule.

[TURN OVER

1.470 1.965

3.150, 2.245, 1.125,

1.225

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10

10

Line	length	W.C.B
AB	89.31	45°10'
BC	219.76	72°05'
CD	151.18	161°52'
DE	159.10	228°43'
EA	232.26	300°42'

- (a) Define two point problem in a plane table survey and explain the method of 10 sloving it on the field.
  - (b) Enlist are the different method of plane table survey and describe the various method with neat sketch.
- (a) The perpendicular offset taken at 10m intervals form a survey line to an irregular boundary form a survey line to an irregular boundary are 2.25, 3.85, 4.50, 6.80, 5.20,7.35,8.90,8.30 and 5.45m. Determine the area between survey line and irregular boundry by (i) Trapeziodal Rule (ii) Simpson's Rule.
  - (b) Write short note on "Area of zero circle"
  - 4 (c) Explain the procedure of mesuring of horizontal angle by the method of 6 repetation.

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