3										//06/2012		
Subject Name: Elements of C Time: 10:30 am – 01:00 pm Instructions: 1. Attempt any five questions.					l Engin	eering		Т	Total Marks: 70			
2. 3.	Make Figur	npt any free suitable res to the question	assump right in	tions wh dicate fu	ıll marks		y <b>.</b>					
Q.1	(a)	The Observed bearings of the traverse are given below .Find out included angles and correct angles .										
			angles a				D   1	D :				
		Line			Fore Bear $2^0 30^7$	ıng		Back Bearing				
		AB BC			$\frac{2^{\circ} 30}{5^{\circ} 00}$			192 <sup>0</sup> 30 275 <sup>0</sup> 00				
		CD			$\frac{3^{\circ}00^{\circ}}{10^{\circ}30^{\circ}}$		$\frac{273}{290^0}$					
		DE			$\frac{10^{\circ}30^{\circ}}{60^{\circ}00^{\circ}}$		$\frac{290}{340^0}$					
		EA			$\frac{00^{\circ}00^{\circ}}{10^{\circ}30^{\circ}}$		$130^{0}$					
	(b)		Bar Cha		10 30		130	130 00				
	(c)	-	lassificat		ırvevina					4 4		
	(0)	GIVE C	iassiiicai	.1011 01 80	ii veying					7		
Q.2	(a)	The Inco	omplete r	page of l	evel bool	c is giver	helow v	vork out th	e	6		
<b></b>	(4)	The Incomplete page of level book is given below work out the missing Entry .Also Give usual arithmetic check								•		
		Stn	B.S.	IS.	F.S.	Rise	Fall	RL	Re			
									mar			
									ks			
		1	X					100				
		2		3.2			1.955	98.045				
		3		X		0.85		X				
		4	2.345		1.255	1.095		99.99				
		5		0.245		X		102.09				
		6	X		X		2.83	99.26				
		7		1.255		1.19		100.45				
		8		_	0.505	0.75		X		_		
	(b) Draw a plain scale of 1cm= 2 m and shaw on it 12 m (c) Explain (i) Aspect (ii) Roominess principles of planning a building  4											
Q.3								t parts	5 5			
	(b)	ο,										
	(U)	bearing	of the lin	e if Dec	lination i	s 2 <sup>0</sup> E	) 30 E	Carculate	ine true	7		

(a) Enlist different types of foundation and Draw sketch of 30 cm wall

(b) Calculate the area of a irregular figure from the planimeter

**Q.4** 

foundation section

5

5

		observation given below (i) Initial reading =3.463 (ii) Final Reading =6.243 (iii) Anchor point outside (iv) Zeromark of the dial passes index in clockwise direction once (v) M =100  Describe application of remote sensing 4										
	(c)											4
Q.5	(a)	m calc Cha inag							_		al of 30 ale 270	5
		e Offs et	0.51	0.72	1.29	1.35	2.08	3.53	4.55	5.01	6.24	
	(b)	Give Symbols for (i) Matrial in section of Brick (ii) Material in section Concrete (iii) Exhaust Fan (iv) Electric Meter(v) culvert										n <b>5</b>
	(c)											4
Q. 6	(a) (b) (c)	Explain Types of concrete Give difference between load bearing and framed structure Explain watershed Development									5 5 4	
Q. 7	(a) (b) (c)	Draw cross section of Road in cutting and embankment Explain Hydrologic cycle Explain the role of transportation in national development									5 5 4	

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