bject code: 110004 bject Name: Elements of Civil Engineering me: 10:30 am – 01:00 pm								Date: 05/06/202 Total Marks:			
str 1. 2. 3.	uctio Atten Make Figur		ive quest assump right ind	tions. tions wh dicate fu	ıll marks		y .	-			
.1	(a) The Observed bearings of the traverse are given below .Find out included angles and correct angles .										
			d angles a				D 1	D :			
		Line AB			ore Bear 20 30	ing	192 ⁰	R Bearing			
		BC			$\frac{2 \ 30}{5^0 \ 00}$		$\frac{192}{275^0}$	00'			
		CD			$\frac{3^{\circ}00^{\circ}}{10^{\circ}30^{\circ}}$		$\frac{273}{290^0}$				
	DE				$\frac{10^{\circ} 30^{\circ}}{60^{\circ} 00^{\circ}}$			340°00			
		EA			$\frac{00^{\circ} 00^{\circ}}{10^{\circ} 30^{\circ}}$		130				
	(b)		Bar Chai		10 30		130	-00		4	
	(c)	-	Classificat		ırveying	W	(0			4	
2	(a)	The Inco	omplete p	page of lo	evel bool	k is given	below v	work out th	e	6	
		missing	Entry .A	lso Give	usual ar	ithmetic	check				
		Stn	B.S.	IS.	F.S.	Rise	Fall	RL	Re		
			020		S				mar		
			1/110						ks		
		1	X					100			
		2	O.	3.2			1.955	98.045			
		3	10	X		0.85		X			
		80.	2.345		1.255	1.095		99.99			
		5		0.245		X		102.09			
		6	X		X		2.83	99.26			
		7		1.255	0.707	1.19		100.45			
					0.505	0.75		X			
		8	1	0.1		1 1	•	`			
	(b) (c)	Draw a j	 plain scal (i) Aspec		n= 2 m a				ilding	4 4	

5

5

(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

		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										
	(c)	Describe application of remote sensing										4
Q.5	(a)	The Offset from the boundary is given below at regular interval of 30 m calculate the area enclosed by Trapezoidal and simpsons rule										5
		Cha inag e	30	60	90	120	150	180	210	240	270	
		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 5										
	(c)	Concrete (iii) Exhaust Fan (iv) Electric Meter(v) culvert Give the properties of Brick 4										
Q. 6	(a)	± • • • • • • • • • • • • • • • • • • •										5
(b) Give difference between load bearing and framed structure										•	5 4	
	(c) Explain watershed Development											7
Q. 7	(a)											5
	(b) Explain Hydrologic cycle										5 4	
	(c)	Explain the role of transportation in national development										

				~			7					
			. \$	COUL	C	7						
			del	Y								
			Oge	X								
		gow		O.								
			1	•								
		~X										