		DE-205
		B. E. (First/Second Semester) EXAMINATION, June, 2010
		(Common for all Branches)
		BASIC CIVIL ENGINEERING
		(BE-205)
		Time: Three Hours
		Maximum Marks: 100
		Minimum Pass Marks: 35
No	ote _. :	Answer <i>five</i> questions in all. All questions carry equa marks. Assume suitable data if necessary.
1.	(a)	Describe the engineering properties of stones with the prescribed engineering values.
	(b)	
		(i) Brick (ii) Cement
		Or
2.	(a)	Describe the engineering properties of timber with prescribed engineering values.
	(b)	Describe the following:
		(i) Paints and Varnishes
		(ii) R. C. C.
3.	(a)	Differentiate between stones masonry and brick masonry.
	(b)	Describe various types of deep foundations. 10 P. T. O.

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		Or	
4.	Desc	cribe any two of the following:	20
	(i)	Bearing capacity of soil	
	(ii)	Orientation of Building	
	(111)	Staircase	
	(iv)	Brick Bonds	
5.	(a)	Describe the following:	10
		(i) Survey stations	
		(ii) Survey lines	
		(iii) Forward bearing	
		(iv) Change point	
	(b)	Describe any one instrument used for	electonic
		distance measurement.	10
		Or	
6.	De	scribe the following:	20
	(i)	Local attraction	
	(ii)	Rise and fall method	•
	(iii) Theodolite and its use	
	(iv) Plane table survey	1
7	. (a)	Describe uses and characteristics of 'Contou	ars'. 1(
		Describe Remote sensing and its application	
		Or	
8	3. (a)	Perpendicular offsets at 50 m intervals to are 10.6, 15.4, 20.00, 15.00, 16.00, 16.25.8, 30.5, 20.8 and 17.00 m. Calculate between the chain line and hedge by:	.75, 20.4
		(i) Average ordinate rule	
		(ii) Trapezoidal rule	

	(D)	Describe various formulas used for calculation volumes.	1
9.	(a) (b)	Describe how you plan a fire resistant building. Describe any two I. S. Codes used in building des	19
		and construction.	1
		Or	
10.	Des	cribe the following:	2
	(i)	Earthquakes and its effect	lond
	(ii)	Natural disasters	