Reg. No.:					

Question Paper Code: 51132

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2016

Third Semester

Civil Engineering

15UCE302 - ENGINEERING GEOLOGY AND CONSTRUCTION MATERIALS

		(Regulatio	n 2015)	
	Duration: Three hours	Answer ALL		Maximum: 100 Marks
		PART A - (10 x	1 = 10 Marks)	
1.	Streak exhibits	_of minerals.		
	(a) Shine(c) Breakage plane)	(b) Colour of solid f(d) Colour of powde	
2.	Which of the following	is carbonate rock		
	(a) Gneiss	(b) Marble	(c) Schist	(d) Slate
3.	Earthquake wave which	n showing longitudin	al particle motion	
	(a) P-waves	(b) S-waves	(c) L-waves	(d) R-waves
4.	The plunge of a fold is	described as the incl	ination of Fold axis	
	(a) to the horizonta(c) to the limb	l plane	(b) to the axial plane(d) to the crust	
5.	A good quality stone ab	sorbs water less than	1	
	(a) 5%	(b) 10%	(c) 15%	(d) 20%
6.	The portion of a brick	cut across the width,	is called	

(c) bed

(d) bat

(b) Half brick

(a) Closer

7.	For the construction of ceraggregate, is	ment concrete	floor, the maximum	n permissible	size of
	(a) 4 <i>mm</i> (b) 6	mm	(c) 8 <i>mm</i>	(d) 10mm	
8.	Vicat's apparatus is used for				
	(a) Fineness test		(b) Consistency test		
	(c) Setting time test		(d) Soundness test		
9.	Seasoning of timber is to done	2			
	(a) to make it water proof		(b) to paint it surface	es	
	(c) to increase its tempera	ture	(d) to remove water		
10.	The steel used for the manufa	cture of rails, i	s		
	(a) Bessemer steel		(b) Mild steel		
	(c) Cast steel		(d) Stainless steel		
	Pa	ART - B (5 x 2	= 10 Marks)		
11.	Discuss about the common cla	ay minerals.			
12.	Define Earth core.				
13.	What are types of bricks base	d on usage?			
14.	What do you understand by the	e terms initial	setting time?		
15.	What are the methods of season	oning of timbe	r?		
	PA	.RT - C (5 x 10	6 = 80 Marks		
16.	(a) Explain in detail about to examples for each proper		roperties of minerals	and give two	mineral (16)
		Or			
	(b) Discuss in detail the proc geology.	ess of weather	ing of rocks and its re	levance to eng	ineering (16)
17.	(a) Give a detail note on inter	nal structure o	of the earth with neat d	iagram.	(16)
		Or			
	(b) What are Folds? How are	they classified	1? And write its engine	ering significa	ince.
			_		(16)

18.	(a)	Evaluate in detail about tests conducted on stones. (16)
		Or
	(b)	Explain in detail about the manufacturing process of bricks. (16)
19.	(a)	Describe in detail about the process of manufacturing of cement by wet and dry process. (16)
		Or
	(b)	Illustrate the tests to be conducted for conventional coarse aggregates? Explain any four tests in detail. (16)
20.	(a)	(i) Discuss the possible sources of defects in Timber. (8)
		(ii) Briefly explain following terms: (i) Veneer (ii) Plywood. (8)
		Or
	(b)	Explain the manufacturing process, properties and civil engineering applications of steel. (16)