A		Reg. No. :						
Question Paper Code: 53102								
B.E./B.Tech. DEGREE EXAMINATION, APRIL 2019								
Third Semester								
Civil Engineering								
15UCE302 - ENGINEERING GEOLOGY AND CONSTRUCTION MATERIALS								
(Regulation 2015)								
Dura	ation: Three hours	ximum: 100 Marks						
PART A - (10 x 1 = 10 Marks)								
1.	Which mineral group is abundantly found in the earth's crust? CO1-U							
	(a) Mica group	(b) Feldspar group	(c) Oxide group	(d) Silicate group				
2.	The structure most prevalent to clastic rocks is CO1-U							
	(a) Nodular structure	(b) Geode structure	(c) Concretionary	y structure (d) Lamination				
3.	A tunnel should not be	e constructed along		CO2-U				
	(a) Strike direction		(b) Dip direction					
	(c) Dip and strike direction		(d) Oblique to the bed					
4.	How is the plunge of a fold measured? CO2-U							
	(a) Direction	(b) Degree	(c) Depth	(d) Direction and Degree				
5.	The Portion of a Bric	k cut across the width,	is called	CO3-U				
	(a) Closer	(b) Half brick	(c) Bed	(d) Bat				
6.	The projecting course at ground floor level is known as CO3-							
	(a) Throating	(b) Plinth	(c) Coping	(d) Weathering				
7.	The initial setting time	e of lime-pozzolana, is		CO4- U				
	(a) 30 minutes	(b) 60 minutes	(c) 90 minutes	(d) 120 minutes				
8.	The ability of cement	to maintain a constant	volume is called	CO4- U				
	(a) Flashing	(b) Honeycombing	(c) Soundness	(d) Creep				
9.	The steel used for the	manufacture of rails, is	S	CO5- U				
	(a) Bessemer steel	(b) Mild steel	(c) Cast steel	(d) Stainless steel				
10.	PVC is widely used to	make pipes because		CO5- U				

	(a) Cost effective (b) D		(b) Does not react with che	Does not react with chemicals						
	(c) I	Easily available	(d) Easy to transport	to transport						
PART - B (5 x 3 = 15 Marks)										
6.	Clas	sify igneous rocks based on their mode of	f occurrence.	(CO1- R					
7.	Briefly explain the importance of studying joints.			CO2 -R						
8.	List some causes for deterioration of stones.			CO3- R						
9.	Wri	te short notes on flakiness index.	CO4 -R							
10.	Give	e some applications of plywoods.	CO5- R							
	PART – C (5 x 16= 80Marks)									
11.	(a)	Explain in detail about the physical prop Or	erties of minerals	CO1 -U	(16)					
	(b)	Articulate the differences between igneor metamorphic rocks	us, sedimentary and	CO1- U	(16)					
12.	(a)	Explain in detail about the types of fau the construction of civil engineering strue Or	lts and their relevance in ctures.	CO2 -App	(16)					
	(b)	Discuss the concepts of plate tectonics and	nd continental drift.	CO2- U	(16)					
13.	(a)	a) Enlist and explain various tests conducted on stones. Or		CO3- U	(16)					
	(b)	State and explain the classification of bri	icks.	CO3 -Ana	(16)					
14.	(a)	Summarize the steps involved in manufa Or	cturing of cement.	CO4 -U	(16)					
	(b)	Write down the tests to be conducted aggregates. Explain any four in detail.	on conventional coarse	CO4- Ana	(16)					
15.	(a)	Explain in detail the causes of decay preservation.	of wood work and their	CO5 -U	(16)					
	(b)	Explain the types of hot-rolled steel s steel sections.	ections and cold formed	CO5 -U	(16)					