A		Reg. No. :											]
		Question Paper	C	ode	: 5	310	2						
B.E./B.Tech. DEGREE EXAMINATION, NOV 2018													
	Third Semester												
Civil Engineering													
15UCE302 -ENGINEERING GEOLOGY AND CONSTRUCTION MATERIALS													
(Regulation 2015)													
Duration: Three hours M							laxin	imum: 100 Marks					
Answer ALL Questions													
		PART A - (10 x 1	[ =	10 1	Mar	ks)							
1.	Kankar is a variety of											CO	1- R
	(a) Sandstone	(b) Limestone		(c) Shale			(d	(d) Coal					
2.	Shine of a mineral is referred to as its											CC	)1-R
	(a) Lustre	(b) Fracture		(c)	Plai	ne of	syn	nmet	try	(d	) Str	eak	
3.	. Folds whose limbs are horizontal are known as				CO2-R								
	(a) Recumbent folds			(b) Massively thrusted folds									
	(c) Horizontal layers			(d) Overturned folds									
4.	The full form of GIS is											CO	2- R
	<ul><li>(a) Graphical information system</li><li>(c) Geographical information source</li></ul>			(b) Geographical information system									
				(d) Graphical information source									
5.	Crushing strength of a good building stone shou				ould be more than CO3- R								
	(a) 50 MPa	(b) 100 MPa		(c)	150	MP	a			(d	) 20	) MF	a
6.	Which of the following pairs gives a correct combination of the useful CO3-U and harmful constituents respectively of a good brick earth?						<b>)3-</b> U						
	(a) Lime stone and alumina			(b) Alumina and iron									
	(c) Silica and alkalies			(d) Alkalies and magnesium									

7.	The cem	(	CO4-R					
	(a) Dicalcium silicate		(b) Tricalcium Silicate					
	(c) Tricalcium aluminate		(d) All					
8.	In a mortar, the binding material is				С	04- R		
	(a) (	Cement (l	b) Sand	(c) Surkhi	(d) Gypsum			
9.	A w	well-seasoned timber may contain moisture up to			CO5- R			
	(a) 4	4 to 5% (t	b)7 to 8%	(c) 8 to 10%	(d) 10 to 12%			
10.	The steel used for rails under heavy traffic and on sharp curves, is				CO5-R			
	(a) l	a) Nickel steel (b) Chrome steel		(b) Chrome steel				
	(c) I	c) Manganese steel (d) Vanadium steel						
			PART – B (5 x 2=	10Marks)				
11.						CO1-U		
12.	State the importance of aquifer in civil engineering.					CO2-U		
13.	List the characteristics to be considered in selection of stones.				CO3-U			
14.	. Define hydration of cement.					CO4-U		
15.	Write the Advantages of using veneer.			CO5-U				
PART – C (5 x 16= 80Marks)								
16.	(a)	Give a detailed acco	ount of the quartz and for	eldspar group of minerals.	CO1- U	(16)		
Or								
	(b) Describe the mineral composition, texture, origin, occurrence, engineering properties and uses of Sandstone, Limestone, Laterite, and Shale.					(16)		
17.	(a)	Define fault and ex	plain the types of fault i	in detail.	CO2- U	(16)		
			Or					
	(b)	Explain in detail Engineering constru		factors affecting Civil	CO2- U	(16)		
18	(2)	List the classificat	tion of bricks and Fx	xplain the manufacturing	CO3-11	(16)		

18. (a) List the classification of bricks and Explain the manufacturing CO3-U (16) process of clay bricks.

Or						
	(b)	Explain the types of brick masonry with neat sketches.	CO3 U	(16)		
19.	(a)	Describe the dry and wet process of manufacture of cement with flow diagram.	CO4- U	(16)		
		Or				
	(b)	(i) Explain the any four tests to be conducted on aggregates	CO4- U	(10)		
		(ii) Classify the different types of mortar and list the types of tests available for mortar.	CO4- U	(6)		
20.	(a)	Explain the process of natural seasoning & mention its advantages and disadvantages.	CO5- U	(16)		
		Or				
	(b)	Classify steel and explain its manufacturing process.	CO5- U	(16)		