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	Subject Code: KCE401							401					
Roll No:													

BTECH (SEM IV) THEORY EXAMINATION 2021-22 MATERIALS, TESTING & CONSTRUCTION PRACTICES

Time: 3 Hours Total Marks: 100

Notes	S:						
•	Attempt all	Sections and Assume any missing data.					
	_	e marks are allotted to each question, answer accordingly.					
SECT	TION-A	Attempt All of the following Questions in brief Marks (10X2=20)	CO				
Q1(a)	Why is it	important to study the properties of building materials?	1				
Q1(b)	How the s	structure of brick tested?	1				
Q1(c)	Why steel	is preferred as a reinforcing material?	2				
		mechanical and properties important of bio plastics?	2				
Q1(e)	What is th	ne importance of layout in the construction?	3				
		loor materials.	3				
		ne difference between lintel and beam?	4				
		y principles of building planning are important?	4				
		the examples of natural ventilation?	5				
		ne purpose of escalator?	5				
	•		CO				
	TON-B	Attempt ANY THREE of the following Questions Marks (3X10=30)					
Q2(a)		ly discuss the engineering properties of civil engineering materials such as	1				
02(1.)	steel, stone and timber that are considered for selecting these materials.						
	Discuss about properties and characteristic of the glass.						
	What are the various measure which are taken during termite control?						
Q2(d)	With neat sketch explain typical cross-section depicting various elements of a						
02(-)	building.						
Q2(e)	Explain w	with the help of a diagram, the working of a Flushing Cisterns.	5				
SECT	TION-C	Attempt ANY ONE following Question Marks (1X10=10)	CO				
		explain the slump cone test on cement concrete. Correlate the slump and	1				
	workability of cement concrete.						
Q3(b)	Describe timber moisture test. Define seasoning for timber.						
	•						
	TION-C	Attempt ANY ONE following Question Marks (1X10=10)	-				
Q4(a)		ferent processes of manufacture of steel and describe one process in detail	2				
		elp of a flow-chart.					
Q4(b)	Discuss a	bout how do you achieve thermal insulation of exposed doors and windows	2				
SECT	TION-C	Attempt ANY ONE following Question Marks (1X10=10)	CO				
		in detail the construction of a geometrical stair and state where this is	3				
	commonly used?						
Q5(b)							
	cavity wall.						
	J						
	TION-C	Attempt ANY ONE following Question Marks (1X10=10)					
Q6(a)		eat sketch of a timber door with shutter, label various parts and draw the	4				
	details of various joints.						

SECT	SECTION-C Attempt ANY ONE following Question		Marks (1X10=10)	CO		
Q6(a)	Draw a neat sketch of a timber door with shutter, label various parts and draw the					
	details of various joints.					
Q6(b)	Q6(b) Explain with neat sketch Mud-phuskka terracing treatment with tile paving.					
SECT	ION-C	Attempt ANY ONE following Question	Marks (1X10=10)	CO		

SECT	ION-C Attempt ANY ONE following Question	Marks ((1X10=10)	CO		
Q7(a)	Discuss about factors effecting the Acoustic design of buildings.					
Q7(b)	Draw neat sketches of the following types of pointing: (i) Vee -Pointing					
	(ii) Groove- Pointing (iii) Beaded Pointing (iv) Tuck - Point	ing				