Faculty of Engineering & Technology

B.Arch. (Architectural Engg.) Third Semester (C.G.S.) Examination

APPLIED MATERIALS

(10019)

Paper-03 AR 01

Tim	e:Tł	iree	Hours]		[Maxim	num N	1arks: 80	
			INSTRUCTIONS	TO CANDIDATES				
	(1)	All	questions carry marks as stated.					
	(2)	Ans	swer FOUR questions.					
	(3)	Que	estion Nos. 5 and 6 are compuls	ory.	un (any two):			
	(4)	Due	e credit will be given to neatness	and adequate dimension	ons. Sold stall)			
	(5)	Ass	ume suitable data wherever nece	ssary.	Plywoods.			
	(6)	Retain the construction lines.						
	(7)	Illu	strate your answers wherever nee	cessary with the help o	f neat sketches.			
	(8)	Use	pen of Blue/Black ink/refill only	y for writing the answe	r book.			
1.	(a)	Explain Paving and Cladding materials. What types of natural and artificial paving and cladding materials available in market that can be used for different public and residential buildings Justify your selection.						
	(b)	-	lain glass as applied material with disadvantages.	*	1.0 W3 V/II		dvantages 8	
				d Polymer based SO				
2.	(a) What types of furnishing and finishing materials available in market will you						_	
			dential building? Explain.				12	
	(b)	Exp	lain (any two):					
		(i)	Varnishes.					
		(ii)	Aluminium paint.					
		(iii)	Emulsion paint.					
		(iv)	P.V.C.				8	
VSL-	9420			1			(Contd.)	

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3.	(a)	Explain term—False Ceiling, its use, advantages, disadvantages. Also explain different types of materials for false ceiling with the help of neat sketches.						
	(b)	Explain (any two):						
		(i)	Synthetic rubber paint.					
		(ii)	Characteristics of an ideal paint.					
		(iii)	Wall paper.					
		(iv)	Linoleum.	8				
			OR					
4.	(a)	Explain partition, its purpose, requirements of good partition, different materials available in market for partition. Explain with neat sketches, what type of partition will you suggest for an Architects Cabin. Justify your selection.						
	(b)	Exp	lain (any two):					
		(i)	Glass blocks.					
		(ii)	Plywoods.					
		(iii)	Timber as a building material. Its advantages and disadvantages.	8				
5.	Exp	xplain (any two):						
	(a)	Explain—Acoustical materials, their purpose. What are different acoustical materials that are available in market which can be used for different types of buildings?						
	(b)	Explain different types of metals as building as well as applied materials.						
	(c)	Ехр	lain defects in painting. What care should be taken while the process of painting?	20				
6.	Exp	Explain any two:						
	(a)	Explain Polymer and Polymer based materials and their use in Building Industry.						
	(b)	Explain objects of painting. Explain process of painting on:						
		(i)	New woodwork.					
		(ii)	Plastered surface.					
	(c)	Explain:						
		(i)	Distemper.					
		(ii)	Anticorrosive paint.	20				
VSL-	9420		2	125				