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Tot	al No.	of p	rinted pages = 3								
CE	181	304									
Roll No. of candidate											
			2/3/	909	SCAN DISTANCE						
					Jacob Parket						
			B.Tech. 3rd Sem	ester En	d-Term Examina	ation					
				CE							
			BUILDING CONS	STRUCT	TION AND PLAN	NING					
			(New Regul	ation ar	nd New Syllabus)						
T 1	135										
Ful	l Mar	ks –	70			Time - Three hours					
				or the que	estions. I any <i>four</i> from the	rest.					
1.	Ans	wer t	the following multiple-	$(10 \times 1 = 10)$							
	(i)	The	vertical distance betw	successive tread fa	ces is known as						
		(a)	Riser	(b)	Tread						
		(c)	Rise	(d)	Going						
	(ii) Which group of buildings used for highly combustible materials?										
		(a)	Group H	(b)	Group E						
		(c)	Group F	(d)	Group J						
	(iii) When the independent footings of two columns are connected by a beam, it is called										
		(a)	Strip footing	(b)	Strap footing						
	20	(c)	Combined footing	(d)	Raft footing						
	(iv)	The	9 mm v 9 cm side of a	brick ac	soon in the wall f	ace is congrally known					

(b) Stretcher

(d) Front

as

(c)

(a) Header

Face

	(v)	Water Supply, Sewerage and drainage are integral part of building planning								
		(a)	True	(b)	False					
	(vi)	Hip roof has slope in how many directions?								
		(a)	One	(b)	Two					
		(c)	Four	(d)	No slope					
	(vii)	For	r tall buildings, the length of raker can be reduced by introducing							
		(a)	Top raker	(b)	Rider raker					
		(c)	Bracings	(d)	Sole plate					
	(viii) LEI	ED stands for							
		(a) Leadership in Energy and Environmental Design								
		(b)	Leadership in Enviro	onmenta	l and Energy Design					
		(c)	Leaders in Energy as	nd Envir	onmental Design					
		(d)	None of the above	BINA	CHOWDHURY CENTRAL LIBRARY					
	(ix)	GR	IHA stands for		High wapara,					
		(a)	Green Rating for Int	egral Ha						
		(b) Green Rating for Integrated Habitat Assessment								
		(c) Green Rating for Integrated Habitat Association								
		(d)	None of the above	. 2						
(x)	(x)	Which of the following are associated with Building Services?								
		(a)	Fire and Safety	(b)	Heating					
		(c)	Ventilation	(d)	All of the above					
	(a)	Write briefly about the classification of buildings based on occupancy.								
	(b)	What do you understand by modular bricks? Show the plan views of bot odd and even courses for 1 brick thick wall in English bond.								
	(c)	Write the essential requirements of good roof. (3								
	(a)	Explain with the help of sketches, various types of shallow foundations. (9								
	(b)	Explain various causes of dampness in buildings. Write the ill effects of dampness in buildings.								

What do you mean by Floor Area Ratio (FAR) and Floor Space Index (FSI). A plot 4. is of size 15 m × 20 m. The front edge having 15 m length is connected to a road. Calculate the total no of floors that can be constructed with the following data. Setback from front = 3m (a) Setback from back and sides = 2 m (b) (15)FAR = 2(c) What are the objectives of building bye-laws? Describe how building construction 5. permission can be obtained in general, (15)(a) Design a dog- legged stair for a building in which the vertical distance 6. between the floors is 3.6 meter. The stair hall measures 2.5 m × 5 m. Assume any other data suitably. (6)(b) Describe the technical terms applied to doors and windows with sketches. (6)BINA CHOWDHURY CENTRAL LIBROWN Write the requirements of good formwork. (3)(c) : JIMT & RIPS) ... Hally-sapara, (2)Write the components of a floor. 7. (a) Dayweller V U17 Describe the component parts of scaffolding? (3)(b)

Explain various types of mortars used for plastering and pointing.

What is shoring? Explain briefly about Raking shores.

(5)

(5)

(c)

(d)