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A		Reg. No. :											
		Question Pa	aper (Code	e: U	110	3						
	B.E./B	Tech. DEGREE	EXAM	INA	ΓΙΟΙ	N, AI	PRIL	202	4				
			sional H										
	Civil Engineering												
	210	CEV103-PREFAI	C C	-		UCT	URI	ES					
		(Regu	ulations	202	1)								
Ľ	Ouration: Three hours							Ma	ıxim	um:	100	Marl	κs
		Answer	ALL Q	Juesti	ons								
		PART A - (10 x 1	= 10	Marl	ks)							
1. Which are the limitations of modular coordination in precast element								CO1	- U				
	(i) Alteration												
	(ii) Forming the joint												
	(a) only (ii)	(b) both (i),	(ii)		(c)]	Both	(a) &	& (b)		(d) N	None		
2.	Brick infill wall acts as	s a shear wall										CO1	- U
	(a) True	(b) False			(c)]	Both	(a) &	& (b)		(d) N	None		
3.	CBRI stands for											CO1	- U
	(a) Central Building R	Repair Institute	(b)) Cen	tral I	Build	ing I	Resea	arch	Inst	itute		
	(c) Central Building R	Road Institute	(d)) Cen	tral I	Build	ing I	Rural	Ins	stitut	e		
4.	Which of the following	g stress affects the	e Trans	porta	tion	?						CO1	- U
	(a) Stripping stress	(b) Dynamic str	ress	(c)) Er	ectio	n stre	ess	(d) Li	fting	stres	SS
5.	In places where transport of fabrication is preference.	_	memb	ers is	s dif	ficult	t wha	at kii	nd			CO1	- U
	(a) Plant prefabricatio	n	(b) s	Site f	abric	cation	1						
	(c) Standardization		(d)]	Prefa	brica	ite sy	stem	ıs					
6.	What is disuniting of S	structure?										CO1	- U

6. What is disuniting of Structure?
(a) Dividing into panels
(b) Organizing the panels
(c) Erecting the panels
(d) Making into smaller members

7.	Construction joints are provided in Prefabricated Structures.					CO1 - U		
	(a) T	a) True (b) False (c) Both (a) & (b)			(d) None			
8.	Function of Joints in Precast structure is				CO1 - U			
	(a) To connect various Pre cast elements (b) To relieve the stresses due to temperature							
	(c)]	To relieve the stresses due	to shrinkage	(d) All of the above				
9.	conn	By using post	tensioning	we can achieve type of	of CO1 - U			
	(a) M	Ioment resisting (b)	(d) None					
10.		many methods are general pse in a building?	CO1 - U					
	(a) One (b) Two (c) Three				(d) Four			
		PA	ART - B (5 x)	2= 10 Marks)				
11.	What	t is the need for pre fabrica	CO1 - U					
12.	Give the classification of floor slabs.					CO1 - U		
13.	Write	e short notes on dimension	CO1 - U					
14.	Write the use of expansion Joint					CO1 - U		
15.	What is meant by ductility?					CO1 - U		
		I	PART – C (5	x 16= 80 Marks)				
16.	(a)	Which prefabricated syste	ems fall into Or	which categories?	CO1 - U	(16)		
	(b) Discuss the need for prefabrication in construction industry. Also state merits and Demerits of Prefabricated structures.					(16)		
17.	(a)	Differentiate the behavior	r of frame in Or	precast structure	CO1 - U	(16)		
	(b)	What is the construction well as the precast structu		the floor and roof slabs, as	CO1 - U	(16)		
18.	(a)	Explain the steps invo efficiency of material use	ed?	design of column based	CO2 - App	(16)		
	(b)	Examine the need for dis the safety measures imple		fabricated constructions and e process.	CO2 - App	(16)		
19.	(a)	Describe the design proce	ess for the exp	pansion joint?	CO1 - U	(16)		
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		Or		
	(b)	Describe the Joints for various structural linkages?	CO1 - U	(16)
20.	(a)	Describe with neat sketches the organization of a prefabrication plant for manufacture of small element	CO1 - U	(16)
		Or		
	(b)	Describe in detail the significance of preventing progressive collapse and the codal arrangements for it?	CO1 - U	(16)

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