## P P SAVANI UNIVERSITY

Fifth Semester of B. Arch. Examination December. 2021

SAAR3274Building construction & technology-V

Time: 09:00 a.m. To 12:00a.m.

24/12/2021Friday

Maximum Marks: 100

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7			
Instruct			The state of the s
1. The	question paper comprises of two sections.		
2. Secti	on I and II must be attempted in separate answer sheets.		
3. Make	e suitable assumptions and draw neat figures wherever required.		
4. Use o	of scientific calculator is allowed.		
0 1	Pill to al. 11 1 C C C		
Q-1	Fill in the blanks (any five)	[0	5]
(1)	Manakana		
(i)	Membrane structures are good for span structures		
(ii)	Shell structure isin nature.	/	
(iii)	Cement is a		
(iv)			
(v)	Wet cladding useand mortar.		
(vi)	Sand face plaster is generally used forsurface.		
(vii)			
Q - 2 (a)	Short Note on types of cladding.	[10	01
Q-2 (b)	Short Note on types of flooring materials.	[10	
	OR	[1.	0]
Q-2(a)	Explain cement as vital building material.	[10	01
Q-2(b)	Explain ready mix concrete.		
Q-3(a)	Explain with sketches shell structures.	[10	100
		[10	o]
Q - 3 (b)	Explain with sketch dry cladding.	[10	0]
	OR		
0 2(-)	F. I. PPP		
Q - 3 (a)	Explain PEB structures with sketches.	[10	0]
Q-3(b)	Explain types of paints		
0-4	Attempt any one	[10	0]
(i)		[05	5]
	Write five names of stone floorings.		
(ii)	Write ingredients of cement concrete.		
	TRUE OR FALSE any five	[05	5]
Q-1			
(i)	Cement is a chemical.		
ii)	Use of steel is ideal for large span		
iii)	Water cement ratio is important in concrete work.		
iv)	Shell structure is homogeneous in nature.		
v)	Potable water is must for RCC work.		
vi)	Membrane structure is not good for large span structures.		
vii)			
2 - 2 (a)	Explain impact of invention of R.C.C.	[40	1
- 2 (b)	Advantages /disadvantages of steel structure over R.C.C, structures.	[10	7
	OR	[10	1
- 2 (a)	Write short note on contemporary building materials.	Fan	7
	Journal of Materials.	[10]	1

Q-2(b)	Explain steel as building material.	[10]
Q - 3 (a)	Give examples of shell strictures	[10]
Q-3(b)	Give examples of membrane structures.	[10]
	OR	
Q-3(a)	Explain various types of steel trusses	[10]
Q - 3(b)	Explain potable water.	[10]
Q-4	Attempt any one	[05]
(i)	Explain modular system of construction.	MINISTRACTOR SERVICE
(ii)	Types of slabs.	