

18ARC82

USN

Eighth Semester B.Arch. Degree Examination, June/July 2024 Materials and Methods in Building Construction - VIII

Max. Marks: 100 Time: 4 hrs.

		Module-1		
1		Explain in detail any 5 innovations in construction industry.	(20 Marks)	
_		OR	(10 Marks)	
2	a. b.	What do you understand by under water construction and kinetic construction? Explain the choice of material for formwork used in High Rise structures.	(10 Marks)	
		Madula 2		
•		Module-2	(20 Marks)	
3		Explain the process involved in 3D printing of buildings.	(20 //2000)	
		OR		
4		Explain your understanding about Big Data and Cloud computing in construction	on industry.	
•		Zinpinia, sy una manara a	(20 Marks)	
		Module-3	(10 N/I l)	
5	a.	What do you mean by retrofit of structures? When is seismic retrofit needed?	(10 Marks)	
	b.	What are the type of damages caused to a building? Explain the measures to	(10 Marks)	
		damages.	(10 1/20115)	
		OR		
6	a.	What is the purpose of life cycle assessment of buildings? What are the aspects included in		
Ū	u.	life cycle assessment?	(10 Marks)	
	b.	How is life cycle assessment done on a building?	(10 Marks)	
		Module-4	(20 Mayles)	
7		What is your understanding of the concept of zero energy buildings?	(20 Marks)	
		OR		
		Explain rating system of green building concepts.	(20 Marks)	
_		Explain rating system of green building concepts.	,	
8				
8		Module-5		

OR

What are Nano materials? Explain their application in building industry. (20 Marks) 10