

18CV643

Sixth Semester B.E. Degree Examination, June/July 2024 **Alternate Building Materials**

Tir	ne:	3 hrs. Max. M	Max. Marks: 100	
	Λ	ote: Answer any FIVE full questions, choosing ONE full question from each mo	odule.	
1	a.	Module-1 Explain the environmental issues related to building materials.	(10 Marks)	
	b.	With neat sketch, explain rain water harvesting enlisting its various advantages.	(10 Marks)	
2	a.	Write a note on Green building ratings.	(06 Morks)	
2	b.	Discuss buildings in different climatic regions.	(06 Marks) (06 Marks)	
	c.	Write short notes on: i) Roof Pond System	(0022220)	
		ii) Direct gain passive solar system.	(08 Marks)	
2		Module-2	(10.34	
3	a. b.	Explain the method of manufacturing the stabilized mud blocks. Explain briefly the use of stones and laterite blocks as masonry units.	(10 Marks)	
	0.	OR	(10 Marks)	
4	a.	List out the factors influencing compressive strength of masonry. Explain any two	0.	
	b.	Write short notes on:	(10 Marks)	
		i) FAL-G blocks		
		ii) Characteristics of a good brick.	(10 Marks)	
		Module-3		
5	a.	What is lime-pozzolana cement? Explain the different ways of blending lime and	(10 Marks)	
	b.	List out matrix materials and reinforcing materials in fiber reinforced cement	-	
		and explain their behavior of FRC in compression.	(10 Marks)	
		OR		
6	a.	Explain typical agro wastes and other biomass resources in construction.	(10 Marks)	
	b.	Discuss the following: i) Application of FRC in construction.		
		ii) Production of Rice husk ash in rice husk burner.	(10 Marks)	
		Module-4		
7	a.	Explain various types of filler slabs along with materials.	(10 Marks)	
	b.	Explain masonry vaults and domes.	(10 Marks)	

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OR

8	a.	Explain the materials used in production of ferro cement products.	(10 Marks)
	b.	Discuss the following in brief:	
		i) Cavity wall	
		ii) Rammed Earth.	(10 Marks)
		Module-5	
9	a.	Explain the methods involved in production of precast elements.	(10 Marks)
	b.	Discuss in brief cost saving techniques in construction.	(10 Marks)
		OR	
10	a.	Write a note on global warming and construction industries.	(10 Marks)
	b.	Explain the machine used in making of stabilized mud block.	(10 Marks)

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