Librarian
Learning Resource O
Acharya Institutes
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## CBCS SCHEME

USN			18CV34							
	Third Semester B.E. Degree Examination, July/August 2022									
	Building Materials and Construction									
T.	,									
1 1r			arks: 100							
	N	ote: Answer any FIVE full questions, choosing ONE full question from each mo	dule.							
		Module-1								
1	a.	Mention the importance of Stones, Bricks and Timber as construction materials.	(05 Marks)							
	b.	Write a brief note on stabilized mud block.	(05 Marks)							
	c.	List the different tests constructed on bricks. Explain any two of them.	(10 Marks)							
		and the state of t	(10 marks)							
		OR								
2	a.	Lists the tests conducted on fine aggregates and explain any one of them in detail.	(08 Marks)							
	b.	What are the requirements of good building stones?	(06 Marks)							
	C.	Explain the requirements of good bricks.	(06 Marks)							
		Madula 2	b							
3	a.	Module-2 Briefly explain various methods of sub soil exploration. What are the factors or	vyhiah tha							
5	u.	choice of a particular method depends?	(10 Marks)							
	b.	Define Foundation. Explain different types of foundation with suitable sketches.	(10 Marks)							
		2. Promised Sections by the original strategy of the strategy	(10 Marks)							
		OR								
4	a.	Write a note on classification of stone masonry.	(06 Marks)							
	b.	Write a note on partitions walls.	(04 Marks)							
	C.	Find dimension of a combined rectangular footing for two column A and B carr	ying a load							
		of 500kN and 750kN column A 300 × 300mm, column B 400 × 400mm in siz	e centre to							
		centre of column is 3.4 mts SBC soil 150kN/m <sup>2</sup> . Width of footing is limited to 1.8								
			(10 Marks)							
		Module-3								
5	a.	Explain: i) Chejja ii) Canopy iii) Balcony iv) Lintel.	(08 Marks)							
	b.	Explain various modes failures of an arch.	(08 Marks)							
	c.	Highlight the important qualities of good flooring materials.	(04 Marks)							

## OR

- 6 a. What are the factors to be considered while selecting a roof covering? (05 Marks)
  b. Explain different types of lintels. (05 Marks)
  - c. What are the requirements of good roof? Draw a neat sketch of king post truss and show important elements. (10 Marks)

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	7		Module-4  Evaluin briefly the guidelines to be followed while leasting doors and windows	(10 Manlan)
٠	7	a. b.	Explain briefly the guidelines to be followed while locating doors and windows. What are the requirements of good stair?	(10 Marks) (05 Marks)
		c.	Discuss importance of formwork in constructional activity.	(05 Marks)
	0		OR	1
	8	a.	Plan a dog legged stair for a building in which the vertical distance between t $3.6m$ . The stair hall measure $2.5m \times 5m$ .	ne floors is (10 Marks)
•		b.	Write short notes on the following:  i) Ranking shore	, ,
			ii) Underpinning by pit method.	(10 Marks)
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	9	a.	Module-5 What are the objectives of plastering? Discuss the defects in plastering.	(10 Marks)
		b.	Explain the method of applying:	
			<ul><li>i) Stucco plastering</li><li>ii) Lathe plastering.</li></ul>	(10 Marks)
	10	a.	What are the defects in painting?	(08 Marks)
		b.	Explain different types of plaster finishes.	(06 Marks)
		c.	What are the characteristics of ideal paint?	(06 Marks)
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			What are the characteristics of ideal paint?  *****  2 of 2	
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