

18CV34

(06 Marks)

Third Semester B.E. Degree Examination, Feb./Mar. 2022 **Building Materials and Construction**

GALO	RE . ST.	Building Materials and Construction	
	ne: 3	hrs. Max. M	larks: 100
	No	te: Answer any FIVE full questions, choosing ONE full question from each mo	dule.
. 2		Module-1	
1		What do you mean by Dressing of Stones? Explain types of dressing of stones.	(08 Marks
		Discuss the characteristics of good building stone.	(08 Marks
	c.	Mention the qualities of good bricks.	(04 Marks)
		OR	
2	a.	Explain with neat sketch, the construction and working of a clamp, for burning of	bricks.
			(08 Marks)
		Briefly discuss the advantages of cement concrete blocks.	(06 Marks)
	c.	Discuss the importance of size, shape and texture of coarse aggregates.	(06 Marks)
		Wildula 2	
3	a.	Module-2 Define Foundation. Discuss functions and causes for the failure of foundation.	(08 Marks)
3		Explain different methods involved in site exploration for foundation.	(06 Marks)
		With neat sketches discuss the features of Flemish bond and English bond of o	
		thick brick wall.	(06 Marks
		OR	
4		Explain types of joints in stone masonry with neat sketches.	(08 Marks)
		State the comparative merits and demerits of stone and brick masonry.	(06 Marks)
	c.	Describe method of construction and advantages of cavity and partition walls.	(06 Marks)
		Module-3	
5	a.	With neat sketches, explain various components of segmental arch.	(06 Marks)
	b.	Distinguish clearly between Lintel and an Arch. How does flat stone arch diff	
		stone lintel?	(06 Marks)
	c.	Explain briefly the definition and functions of the Chejja, Balcony and Canopy.	(08 Marks
	A.		
,		OR	nt concret
6		Mention requirement of good floor, describe the method of constructing ceme	(08 Marks)
		flooring. With the help of neat sketch, explain components of Queen Post Truss.	(06 Marks)
		What are the factors to be considered while selecting roof covering?	(06 Marks)
			` '
		Module-4	
7	a.	Explain the following doors with neat sketches:	
		(i) Fully paneled door	
		(ii) Revolving door	(06 Marks)
	b.	Discuss the following windows with neat sketches:	
		(i) Bay window (ii) Corner window (iii) Louvered window (iv) Pivoted window	(08 Marks)
	_	(iii) Louvered window (iv) Pivoted window	(08 Marks)

c. Describe briefly classification of stairs.

OR

8 a. Plan a dog-legged stair for a building in which the vertical distance between the floor is 3.6 meter. The stair wall measure 2.5 × 5.0 meter.

b. What are the types of Scaffolding commonly used?

c. Write explanatory note on shoring and under pinning form work.

(08 Marks)

(08 Marks)

Module-5

9 a. Write the objectives of plastering and requirement of good plaster.

b. Discuss the defects in plastering.

c. Explain the method of applying stucco plastering.

(05 Marks)

(05 Marks)

OR

- 10 a. Discus the causes, effects and methods of controlling dampness in building. (08 Marks)
 - b. Mention the objectives of painting and point out the characteristics of an ideal paint.

(06 Marks)

c. Describe the procedure of painting on wood surface and inner walls of residential building.

(06 Marks)

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