Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. 2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8= 50, will be treated as malpractice.

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

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

	1	Note: Answer any FIVE full questions, choosing ONE Juli question from each mo	aute.
		Module-1	
1	a.	What do you mean by Dressing of Stones? Explain types of dressing of stones.	(08 Marks)
	b.	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.
		O. K	(08 Marks)
	b.	Briefly discuss the advantages of cement concrete blocks.	(06 Marks)
-	c.	Discuss the importance of size, shape and texture of coarse aggregates.	(06 Marks)
		Module-2	
3	a.	Define Foundation. Discuss functions and causes for the failure of foundation.	(08 Marks)
	b.	Explain different methods involved in site exploration for foundation.	(06 Marks) .
	c.	With neat sketches discuss the features of Flemish bond and English bond of o	one and half
		thick brick wall.	(06 Marks)
		OR	
4	a.	Explain types of joints in stone masonry with neat sketches.	(08 Marks)
	b.	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)
		a' a R	
		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 di	iffers from a
		stone lintel?	(06 Marks)
	C.	Explain briefly the definition and functions of the Chejja, Balcony and Canopy.	(08 Marks)
	Ann		(00.1111110)
		OR	
6	a.	Mention requirement of good floor, describe the method of constructing cem	ent concrete
		flooring.	
	b.	With the help of neat sketch, explain components of Queen Post Truss.	(08 Marks)
	c.	What are the factors to be considered while selecting roof covering?	(06 Marks)
	1000	white the factors to be considered white selecting foot covering?	(06 Marks)
Madula 4			
7	a.	Explain the following doors with neat sketches:	
	ч.	(i) Fully paneled door	
			(06 Marks)
	0.	Discuss the following windows with neat sketches:	
(i) Bay window (ii) Corner window			
		(iii) Louvered window (iv) Pivoted window	(08 Marks)
	C.	Describe briefly classification of stairs.	(06 Marks)
			The second second second

Plan a dog-legged stair for a building in which the vertical distance between the floor is (08 Marks) 3.6 meter. The stair wall measure 2.5×5.0 meter. (08 Marks) What are the types of Scaffolding commonly used (04 Marks)

Write explanatory note on shoring and under pinning form work.

(08 Marks) Write the objectives of plastering and requirement of good plaster. (07 Marks) b. Discuss the defects in plastering.c. Explain the method of applying stucco plastering. (05 Marks)

(08 Marks)

Discus the causes, effects and methods of controlling dampness in building. Mention the objectives of painting and point out the characteristics of an ideal paint.

(06 Marks)

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

(06 Marks)