GBCS SCHEME

Third Semester B.E. Degree Examination, Jan./Feb. 2021

Building Materials and Construction

Max. Marks: 100

(04 Marks)

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

	Note: Answer any FIVE full questions, choosing ONE full question from each module.					
		Module-1				
1	a.	What are the factors that cause deterioration of stones and explain the methods c				
			(08 Marks)			
	b.	Briefly explain the various field and laboratory tests conducted on bricks to				
			(08 Marks)			
	c.	What are the advantages of cement concrete blocks?	(04 Marks)			
		OR				
2	a.	Lists the tests conducted on fine aggregates and explain any one of them in detail.	(08 Marks)			
	b.	Explain impact and abrasion tests conducted on coarse aggregates.	(08 Marks)			
	c.	What are the characteristics of good timber used for construction?	(04 Marks)			
	Module-2					
3	á.	What are the functions of a foundation? Mention the situations during w	hich pile			
			(08 Marks)			
	b.	Write a note on:	, ,			
		i) Spread footing ii) Strap footing	(08 Marks)			
	c.		(04 Marks)			
		OR				
4	a.	Sketch the elevation of a brick wall built in i) English bond ii) Flemish bond.				
		•	(08 Marks)			
	b.		(08 Marks)			
	C.	Write a note on partitions walls.	(04 Marks)			
		Module-3				
5	a.	Draw a neat sketch of an arch and explain the technical terms used.	(08 Marks)			
	b.	Explain i) Chejja ii) Canopy iii) Balcony iv) Lintel.	(08 Marks)			
	C. ,	Write a note on stability of arch.	(04 Marks)			
		OD				
6	a.	List the types of flooring and explain the method of laying of cement concrete f	looring in			
U	a.	1 / (I) / (III)	(08 Marks)			
	b.	List the classification of pitched roof. With neat sketches explain any two of them.				
	c.	- 1 <i>M</i>	(00 Marks) (04 Marks)			
	С.	What are the factors to be considered while selecting a roof covering.	(04 Marks)			
1800		Module-4				
7	a.	With the help of a neat sketch explain				
		i) Paneled door ii) Collapsible door.	(08 Marks)			
	b.	Write a note on				
		i) Bay window ii) Steel window	(08 Marks)			
		777	(0 1 B F Y)			

What are the guidelines to be followed while locating doors and windows?

	OK .	
a.	Write a note on	· ·
	i) Shoring ii) Underpinning.	(08 Marks)
b.	Plan a dogged stair for a building in which vertical distance between the floors in	is 3.6m. The
	stair hall measures 2.8m×5.0m (internal dimension).	(08 Marks)
c.	With the help of a neat sketch explain	
	i) Tread and Riser ii) Flight and Landing.	(04 Marks)
	- COLONIE V	
a.		(10 Marks)
b.	Briefly explain the methods of damp proofing.	(10 Marks)
	b. c.	 a. Write a note on i) Shoring ii) Underpinning. b. Plan a dogged stair for a building in which vertical distance between the floors is stair hall measures 2.8m×5.0m (internal dimension). c. With the help of a neat sketch explain i) Tread and Riser ii) Flight and Landing. a. What are the objectives of plastering? Explain the defects in plastering.

OR

a. Explain the method of laying stucco plastering and lathe plastering. (10 Marks)
b. Explain the constituents of a paint and explain the procedure of painting on new wood works. (10 Marks)

