CBCS Scheme

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USN							15C145

		Fourth Semester B.E. Degree Examination, June/J	uly 2018
		Building Construction	
T			N. 6 - N. 6 - 1 - 0.0
1	ime: 3	(12)	Max. Marks: 80
	N	ote: Answer any FIVE full questions, choosing one full question from	n each module.
		Module-1	
1	a.	Define foundation and discuss various functions of foundation.	(06 Marks)
•	b.	What are the purposes of site exploration?	(04 Marks)
	C.	Define shallow and deep foundations. Explain with neat sketches.	(06 Marks)
		OR	
2	a.	Explain in detail the method of loading for determining safe bearing ca	pacity of soil.
	· ·		(06 Marks)
	b.	With the help of neat sketch, explain Raft foundation.	(04 Marks)
	c.	What are the precautions to be taken for the safety of foundations in Bl	
			(06 Marks)
)	(53)	Module-2	
3	a.	Sketch plan and elevation of consecutive two layers of English bond	and Flemish Bond for
		$1\frac{1}{2}$ brick thick wall.	(06 Marks)
7	b.	Define the terms :	692
	U.	i) Sill	Tall.
		ii) Corbel	<u> </u>
		iii) Quoin	
		iv) Header bond.	(04 Marks)
	C.	With a neat sketch explain various types of joints used in stone masonr	
		OR OR	
: 4		Explain with neat sketch Rubble masonry and coursed Rubble masonry	(06 Marks)
	b.	Write short notes on:	
		i) Concrete partition	
		ii) A.C sheet partition.	(04 Marks)
	C.	Draw the neat sketches of the following i) Segmental arch	
)		i) Segmental arch ii) Relieving arch	(06 Marks)
		n) Reneving aren	(00 Marks)
		Module-3	
5	a.	Explain with neat sketches, various types of lintels.	(06 Marks)
	b.	Briefly explain functions of Chejja.	(04 Marks)
	C.	Name the different types of the roof covering for pitched Roofs. Explain	
			(06 Marks)
		OR	
6	a.	Define roof. What are the requirements of a good roof?	(06 Marks)
	b.	What are the advantages of steel trusses over timber trusses?	(04 Marks)
	0	What we the requirements of a good stair? Explain them in detail	(O(M 1)

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.

(06 Marks)

What are the requirements of a good stair? Explain them in detail.

		Intoduce .	
7	a.	Explain different types of plaster finishes.	(06 Marks)
	b.	What are the advantages of pre-cast concrete floors	(04 Marks)
	C.	Draw a neat sketch of wooden panelled door with shutter and name the pa	rts with six panels.
			(06 Marks)

OR

8	a.	Explain defects in plastering.	(06 Marks)
	b.	Briefly explain the factors affecting the choice of flooring material.	(04 Marks)
	C.	Write short notes on the following:	
		i) Bay windows	6

- Sky lights
- iii) Clerestory windows.

(06 Marks

Module-5

- List and explain the various constituents of a good oil paint. (06 Marks)
 - Give the specifications for low cost buildings:
 - Foundations i)
 - ii) Masonry in superstructure load bearing wall. (04 Marks)
 - What are the requirements of a good form work?

(06 Marks)

OR

- 10 Explain the procedure of painting for iron and steel structures. (06 Marks)
 - Write short notes on:
 - Timber formwork i)
 - ii) Steel form work

(04 Marks)

- Write short notes on:
 - Coloring pigments i),
 - Precast roofing
 - iii) Shuttering.

(06 Marks)