

Third Semester B.E. Degree Examination, Jan./Feb. 2021 **Building Materials and Construction**

T	me: 3	hrs. Max. Ma	rks: 100
	N	ote: Answer any FIVE full questions, choosing ONE full question from each mod	ule.
		Module-1	
1	a.		(04 Marks)
1 1 Level 1	b.		(08 Marks)
	c.		(08 Marks)
		Emplain official (i) contain collection (ii) contains and in the collection (iii) contains and in the collection (iii) contains (iii) contain	()
		OR	
2	a.		(06 Marks)
gi.	b.	What do you mean by bulking of fine aggregate? Explain the importance of bulking	
	80		(08 Marks)
	c.		(06 Marks)
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		Module-2	
3	a.		(04 Marks)
	Ъ.	Explain the following:	,
			(08 Marks)
	c.	Explain briefly the requirements of good stone masonry.	(08 Marks)
		OR O	
4	a.	What do you mean by safe bearing capacity of soil? Briefly explain variou	s methods
		adopted to improve SBC.	(08 Marks)
	b.	Explain briefly classification of stone masonry.	(06 Marks)
	c.	With the help of neat sketch explain 1½ (one-half) brick thick wall constructed	d by using
		English bond.	(06 Marks)
		Module-3	
5	a.	Define Lintel. How are they classified according to the materials of construction?	
	b.	Draw a neat sketch of a segmental arch and explain various technical terms us	ed in arch
		work.	(08 Marks)
	c.	Explain briefly the factors influencing the selection of flooring materials.	(08 Marks)
		OR	
6	a.	Explain briefly the advantages of arch over lintel.	(04 Marks)
	b.	Explain the following:	
		(i) Lintel (ii) Canopy (iii) Chejja (iv) Balcony	(08 Marks)
	c.	With the help of neat sketch explain the parts of King Post truss.	(08 Marks)
		Module-4	C 1.5
7	a.	Plan a dog-legged stair between two floors of 3.15m height with roof thickness	
		The gize of staircase room is 2.5m × 5m. Draw the plan of the stair	(10 Marks)

The size of staircase room is $2.5m \times 5m$. Draw the plan of the stair. (10 Marks)

b. Explain the following with neat sketches:

(i) Bay window (ii) Dormer window. (10 Marks)

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OR

8	a.	With a neat sketch, label the different parts of a stair. Explain the terms involved.	(10 Marks)
	b.	Write short notes on:	
- 1		(i) Scaffolding (ii) Under pinning	(10 Marks)
		Module-5	
9 .	a.	What do you mean by plastering? Explain the purpose of providing plastering.	(05 Marks)
	b.	Explain the causes and effects of dampness in a building.	(07 Marks)
er det	c.	Explain briefly the various constituents of a good paint.	(08 Marks)
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		OR	
10	a.	Explain briefly the various defects in plastering.	(08 Marks)
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a. Explain briefly the various defects in plastering. (08 Marks)
b. What do you mean by damp proof course? List the necessity of damp proof course in building.
c. Describe the procedure of painting on new wood work. (08 Marks)

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