Roll No.:....

B020414(020)

B. Tech. (Fourth Semester) Examination, Nov.-Dec. 2021

A)CTE (New Scheme)

(Civil Engineering Branch)

BUILDING CONSTRUCTION

Paper: (BT3020)

Time Allowed: Three hours

Maximum Marks: 100

Minimum Pass Marks: 35

Note: Attempt any three part of each questions.

Part (a) is of each question is compulsory and carries 4 marks. Attempt any two parts from (b), (c) and (d) and carries 8 marks.

Unit-I

1. (a) What are the essentials of a good foundation?

4

		[2]			[3]
	(b)	What are the causes of failure of foundation? What remedial measures would your adopt?	8	floor. I	Explain the method of constructing cement concrete flooring.
	(c)	Explain the help of sketches, various types of shallow foundation.	8	(c)	Write various types of floors and explain any one, with the sketch in detail.
	(d)	What do you understand by under reamed piles? Explain with sketches.	8	(d)	Explain in brief but with sketches types of pitched roofs.
		Unit-II			Unit-IV
2.		Name different types of stone masonry. Enumerate the various types of bond in brick	4	4. (a)	What should be the characteristics of damp proofing materials?
		masonry. Discuss essential features of English bond.	8	_ (b)	What are the requirements of a good formwork?
		Define facing bond, raking bond, stretcher bond and header bond and the conditions when they are			Draw a details sketch of the formwork for work for rectangular column.
		provided.	8	(c)	Describe various types of pointing. Explain method of pointing.
		What are the advantages of cavity wall? What precautions are observed in cavity wall?	8	(d)	Write short notes on :
		Unit-III			(i) Construction joints
3.	(a)	Enumerate various types of flooring material.	4		(ii) Expansion joints
	(b)	Draw a neat diagram showing component of ground			

[4]

Unit-V

5.	(a) Define acoustics.	4
	(b) Discuss in brief general principles and factors in acoustical design of a theatre.	8
	(c) Explain the various methods of sound insulation through the wall of a hall.	8
	(d) Explain fire resistant properties of various building materials.	8
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