Roll No. : .....

## B020414(020)

## B. Tech. (Fourth Semester) Examination, April-May 2022

(AICTE Scheme)

(Civil Engineering Branch)

## **BUILDING CONSTRUCTION**

Time Allowed: Three hours

Maximum Marks: 100

Minimum Pass Marks: 35

Note: 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) Define foundation. Why foundation is required in structure. Justify it.

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(b) What are the factors that affect the choice of the

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	(b)	What is strap footing? Explain with the help of neat sketch.	8
	(c)	Write short notes on expansive and non-expansive soil.	8
	(d)	What are the causes of failure of foundation and its remedial measures.	8
		Unit-II	
2.	(a)	Define the term masonry. Name various types of masonry.	4
	(b)	Write a short note on Brick masonry. Give reasons why brick masonry is preferred over stone masonry	. 8
	(c)	Give a brief discription on slenderness ratio and basic compressive stress.	8
	(d)	Write short notes on location of doors and windows.	8
		Unit-III	
3.	(a)	What is the purpose of providing floors? What are its various components?	4

		flooring materials? Explain in details.	8		
	(c)	Discuss about pitched, flat and curved roof. Name the technical terms used in sloping roof.	8		
	(d)	What do you understand by the term formwork? What are the requirements of a good form work.	8		
		Unit-IV			
4.	(a)	Name the causes and effect of dampneoss.	4		
	(b)	Discuss about the materials used in Damp proofing.  Also explain the important function of the materials.	8		
	(c)	Explain the various defects occurs in plastering work.	8		
	(d)	What are the construction joints? Give a detail note on expansion and contraction joints.	8		
Unit-V					
5.	(a)	Define Acoustics.	4		
	(b)	Explain in brief general acoustics defects and suggests the remedial measures.	8		

(c)	Discuss about the materials used for sound proof	F
	construction.	8
(d)	Give a detailed note on fire safety requirements for	
	buildings.	8