Roll No

CE - 404

B.E. IV Semester Examination, June 2014 Construction Materials And Techniques

Time: Three Hours

Maximum Marks: 70

- *Note*: i) Answer Five questions. In each question part A, B, C is compulsory and D part has internal choice.
 - ii) All parts of each question are to be attempted at one place.
 - iii) All questions carry equal marks, out of which part A and B (Max. 50 words) carry 2 marks, part C (Max. 100 words) carry 3 marks, part D (Max. 400 words) carry 7 marks.
 - iv) Except numericals, Derivation, Design and Drawing etc.

IINIT_I

		UNII – I	
1.		What are the qualities of a good building stone?	2
	b)	What are the various uses of stones?	2
	c)	•	
	d)	What are tiles? Discuss various varieties and in short describe the process of manufacturin	g
		the same.	7
		OR	
		What do you mean by seasoning of timber? What are the different methods of seasoning	_
		Explain. UNIT – II	7
2.	a)		2
	b)	What are the advantages of stabilized mud blocks?	2 2 3 7
	c)	Explain D.P.C. What materials are used for providing D.P.C?	3
	d)	Enumerate the Agriculture and Industrial waste which can be used as a building material.	7
	α)	OR	•
		<u>*-</u> -	7
		UNIT-III	•
3.	a)		2
	b)	What are the different types of soil?	2
	c)	Explain wall footings with neat sketches.	3
	d)	Describe well foundation and what are its causes of failure?	2 2 3 7
	٠,	OR	•
		What are under - reamed piles? Where and why they are used? Give a dimensioned sketch of	of
		the same.	7
	,	UNIT – IV	
4.	a)	What are the cavity walls?	2 2 3
	b)	Write the names of different types of doors.	2
	c)		3
	d)	Enlist the types of stairs. Explain any two of them in detail.	7
		OR	
		Enumerate various types of bonds used in brick masonry. Draw sketch of English and Flemis	h
		bonds.	7
_		UNIT – V	_
5.	a)	What are the advantages of sloping roof?	2
	b)	What are the Flat roofs?	2
	c)	Write short notes on: i) Jack Arch Roofs ii) False ceiling	2 2 3 7
	d)	Explain about the various methods used for thermal insulation of the roof / ceiling. OR	7
		Explain what is good water supply arrangement and good drainage arrangement in a residential	al
		huilding	7

CE-404