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?	Roll No. :	Total Printed Pages : 3
45	3E1452	
3E145	B. Tech. (Sem. III) (Main & Back) E. 3CE2 Building Material & Constr	
Time : 3	3 Hours]	[Total Marks : <b>8</b> [Min. Passing Marks : <b>2</b>
* Z	ot any <b>five</b> questions. Selecting <b>o</b> t All questions carry <b>equal</b> marks. be shown wherever necessary. As suitably be assumed and stated of used/calculated must be	Schematic diagrams must ny data you feel missing clearly. Units of quantities
	following supporting material is perminated in form No. 205)  NIL	tted during examination.  2. NIL
	UNIT - I	
(a)	) Discuss the various characterist	tics of a good building stone
(b)	What are the different laborato on a stone? Discuss crushing	The state of the s
. <b>.</b> .	OR	<b>\</b>
(a)	) What are the different stages of Describe in brief the burning of	
(b)	Describe how bricks are classified of bricks.	ed ? Discuss IS classification

UNIT - II

(a) What are the ingredients of OPC? State the functions and limits of each of them.

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What do you mean by normal consistency? What is its (b) significance? How is it tested? 8 OR What are the characteristics of lime? Discuss IS classification  $\cdot$  (a) of lime. 8 What is bulking of sand? Discuss characteristics and uses (b) of sand. 8 UNIT - III State and discuss different methods of seasoning of timber. 3 (a) Discuss classification of timber on the basis of grading. (b) 8 OR What are the various ingredients of plastics? Give their 3 (a) specific uses. 8 What are the various ingredients of paints? State the (b) functions of each of them. 8 UNIT - IV State various components of a building. Discuss the functional 4 (a) requirement of super structure. 8 Classify building based on occupancy. (b) 8  $\mathbf{OR}$ Name the various types of foundations generally used. 4 (a) Discuss construction of spread footing foundation. Discuss causes of failure of foundations and their remedial (b) measures. 8 [Contd... 2 3E1452]

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## UNIT - V

5 (a)	(a)	What is the significance of bonding in brick Differentiate between English Bond and Double	work? Flemish
ē		bond with sketches.	10

Explain the differences between Brick-Masonary and Stone Masonary.

## OR

Discuss various types of pointing with sketches. (a) 5

What are the common defects of plastering what are their (b) causes and remedies ?

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