Printed Page 1 of 1		Sub Code:RCE301
Paper Id: 100301	Roll No:	
	B.TECH) THEORY EXAMINATION 2019-2 EMATERIALS AND CONSTRUCTI	
Time: 3 Hours		Total Marks: 70

Hour	rs Total Marks: 70 empt all Sections. If require any missing data; then choose suitably.
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	SECTION A
Atten	
a.	What do you understand by the term efflorescence and lime bursting?
b.	What is seasoning of Timber?
c.	Explain the term HVAC.
d.	What are elastomers?
e.	What are the properties of good mortar?
f.	Draw a sketch showing the position of gable and dormer widow.
g.	Explain bulking of sand.
	SECTION B
Atten	
a.	Explain the various tests that need to be performed to ensure the suitability of cemer
b.	Explain how pre-construction anti termite treatment is carried out in a building
c.	Give the classification of building as per NBC with suitable examples
d.	Discuss the general principles that need to be observed in brick masonry construction
e.	Explain the various measures taken for limiting the spread of fire in a building.
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	SECTION C
(a)	What is Pozzolona? Explain the various pozzolanic materials
(b)	Explain with neat sketches the various defects of timber.
(a)	Explain the various properties of plastics and their use in construction Industry.
(b)	Explain the term damp proofing. What are the various methods of damp proofing?
	$\frac{\text{npt any } \textit{one } \text{part of the following:}}{7 \text{ x } 1 = 7}$
(a)	What do you understand by the term "bonds in Brick work?" Compare English
	Flemish Bonds and also draw the plan of successive courses of $1\frac{1}{2}$ brick thick wall
	both the bonds.
(b)	What is the functional requirement of lintel? Write short notes on the following w
L	suitable sketches (i) Bay Window (ii) Revolving door
	$\begin{array}{c} \text{mpt any } one \text{ part of the following:} \\ 7 \text{ x } 1 = 7 \end{array}$
(a)	Explain the various types of flat roofs
(b)	Discuss the various principles of planning of the building
(a)	What do you mean by Acoustics? As an engineer what are the probable solutions
(l ₂)	treating the acoustical defects of a lecture room.
(b)	What is pointing and where is it required? Explain the various types of pointing w suitable sketches.
	SUITAUTE SKEWHES.