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P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belgaum)
Third Semester, B.E. - Civil Engineering

Semester End Examination; Dec. - 2014
Building Materials and Construction

Time: 3 hrs Max. Marks: 100

Note: i) Answer FIVE full questions, selecting ONE full question from each Unit. ii) Assume suitable missing data if any.

Unit - I

1. a.	. List the qualities of good building stones.						
b	b. List the qualities of good bricks.						
2 a.	Explain any five defects of timber.	10					
b	Explain any two method of seasoning of timber.	10					
	Unit - II						
3 a.	. Define SBC of soil. Explain the methods which are used to improve SBC of soil.						
b	b. Write a note on foundations in black cotton soil.						
4. a.	a. Draw neat sketches of (i) Raft footing and (ii) Combined footing.						
b	Explain different types of pile foundations.	10					
	Unit - III						
5 a.	a. Differentiate between English bond and Flemish bond. Draw sketches.						
b.	b. Write a note on reinforced brick work.						
6 a.	a. Explain with a neat sketch pit type underpinning.						
b	b. Explain the stages of laying polished marble flooring.						
	Unit - IV						
7 a.	a. Draw a neat sketch of wood queen Post roof truss for a span of 12 m and label the parts.						
b.	e. Explain the requirements of ideal staircase.						
8 a.	Explain collapsible door with a neat sketch.						
b.	With a neat sketch write a note on dormer window.	10					
	Unit - V						
9 a.	Explain the purpose of (i) Painting and (ii) Plastering	10					
b	b. Explain the procedure involved in polishing wood.						
10a.	Da. List the advantages and disadvantages of pre fab construction.						
b	b. Write a note on damp proof construction.						