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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 - 2016/Jan - 2017 Building Materials and Construction

Time: 3 hrs Max. Marks: 100 --- Formatted: Centered

Note: Answer FIVE full questions, selecting ONE full question from each unit.

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	UNIT - I	Formatted Table
1 a.	With neat sketches explain dressing of stones and its types.	10
b.	Explain the qualities of good brick.	10
2 a.	With neat sketches, explain various defects of timber.	10
b.	Write a short note on ply wood and its uses.	10
	UNIT - II	
3 a.	Explain the preliminary investigation that has to be carried out on soil samples to select	10
ļ	suitable type of foundation.	10
b.	Draw neat sketches of:	10
	i) Raft foundation ii) Well foundation.	10
4 a.	Explain different types of pile foundations. Draw neat sketches.	10
b.	Write a note on foundations in black cotton soil.	10
	UNIT - III	
5 a.	Differentiate between English bond and Flemish bond. Draw neat sketches of the	10
	elevation of wall built in English and Flemish bond.	10
b.	Explain the method of laying marble flooring.	10
6 a.	What is shoring? Under what circumstances it is recommended? Draw neat sketch of	10
	raking shore and name the parts.	10
b.	Write an explanatory note on reinforced brick work. Draw neat sketches.	10
	UNIT - IV	
7 a.	Sketch the elevation of a wooden king post roof truss for a span of 6 m and name the	10
	parts.	10
b.	List and explain the requirements of a good stair.	10
8 a.	Sketch the elevation of half glazed and half panelled door and name the parts.	10
b.	Write short notes on :	
	i) Bay Window	10
	ii) Dormer Window.	
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9 a.	Explain the method of application of paint on,		
	i) New surfaces	1	0
	ii) Iron and steel surfaces.		
b.	Write a note on:		
	i) Stabilized mud blocks	1	0
	ii) Hollow concrete blocks.		
10 a.	List and explain the advantages and disadvantages of prefabricated constr	uction. 1	0
b.	Write a note on damp proof construction.	1	0
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