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

(An Autonomous Institution affiliated to VTU, Belagavi)
Seventh Semester, B.E. - Civil Engineering
Semester End Examination; Dec. - 2019
Building Science and Engineering

Time: 3 hrs Max. Marks: 100

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

## UNIT - I

	UNIT - I			
1 a.	List the different types of cement with their function and usage in different scenarios.	10		
b.	List the types of steel available in the market and mention their properties.			
2 a.	What are the different types of stairs used in building? Explain any one in detail	10		
	with sketches.	10		
b.	b. Discuss the provision of doors and windows in a structure with respect to,			
	i) Location ii) Purpose iii) Size	10		
	UNIT - II			
3 a. What do you understand by the term foundation? What are the objectives? Mention the				
	essential requirements of good foundation.			
b.	Enumerate the various causes of the failure of foundation. What measures are to be taken to	10		
	prevent such failures?			
4 a.	a. What is the function of roof in a building? Compare the advantage and disadvantages of flat			
	roof and sloped roof.	10		
b.	Mention the different types of floors. Explain any four.	10		
	UNIT - III			
5 a.				
Ja.	Discuss the merits and demerits of English bond and Flemish bond with neat sketches.	8		
5 а. b.	Discuss the merits and demerits of English bond and Flemish bond with neat sketches.  What points should be kept in mind while doing construction of building so that in future			
		8		
	What points should be kept in mind while doing construction of building so that in future			
b.	What points should be kept in mind while doing construction of building so that in future cracks should not develop on it.	6		
b. с.	What points should be kept in mind while doing construction of building so that in future cracks should not develop on it.  Write a note on termite control in existing building.	6 6		
b. c. 6 a.	What points should be kept in mind while doing construction of building so that in future cracks should not develop on it.  Write a note on termite control in existing building.  List and explain the different components of a building with neat sketch.	6 8 6		
<ul><li>b.</li><li>c.</li><li>6 a.</li><li>b.</li></ul>	What points should be kept in mind while doing construction of building so that in future cracks should not develop on it.  Write a note on termite control in existing building.  List and explain the different components of a building with neat sketch.  What is ventilation and what are the functional requirements?	6 6 8		
<ul><li>b.</li><li>c.</li><li>6 a.</li><li>b.</li></ul>	What points should be kept in mind while doing construction of building so that in future cracks should not develop on it.  Write a note on termite control in existing building.  List and explain the different components of a building with neat sketch.  What is ventilation and what are the functional requirements?  What is orientation of building? Explain in detail the importance of orientation in the	6 8 6		
<ul><li>b.</li><li>c.</li><li>6 a.</li><li>b.</li></ul>	What points should be kept in mind while doing construction of building so that in future cracks should not develop on it.  Write a note on termite control in existing building.  List and explain the different components of a building with neat sketch.  What is ventilation and what are the functional requirements?  What is orientation of building? Explain in detail the importance of orientation in the planning of residential buildings.	6 8 6		

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8 a.	List the standard for a interior design of,						
	i) Spacious rooms		10				
	ii) Theme rooms						
b.	List the requirement for a interior design of,						
	i) Living area		10				
	ii) Dining area						
UNIT - V							
9 a.	Mention the elements of landscape architecture. Explain any two.		10				
b.	Write a note on;						
	i) Specialization in landscape		10				
	ii) Water efficient landscaping						
10 a.	Mention the design guidelines for interior landscape.		10				
b.	Write a note on;						
	i) Landscape products		10				
	ii) Landscape materials						