

JK LAKSHMIPAT UNIVERSITY, JAIPUR

INSTITUTE OF ENGINEERING AND TECHNOLOGY

End Term Examination (Regular/Backlog), Nov-Dec 2015

B. Tech in Civil Engineering, Semester III

Roll No.....

CE 307: Building Planning & Construction Materials	Time: 3 hours	Max. Marks: 100
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Instructions to students:

- Do not write anything other than your roll number on question paper.
- Assume suitable data wherever required and mention it clearly.

Writing appropriate units, nomenclature, and drawing neat sketches/schematics/ flow chart wherever, required are an integral part of the answer.

- Q.1 A Objective type multiple choice questions (10 questions @ 1 mark) 10
- Which one is the part of a staircase ; a) Tread, b) Rise, c) Baluster, d) All of the above.
 - The inclined portion of a staircase is known as; a) Waist slab, b) Beam, c) Mid-Landing, d) Flight.
 - Scaffolding is a; a) Building, b) Part of a structure, c) Temporary Structure, d) Frame.
 - Out of the following which one is the strongest type; a) Brick Floor, b) Glass Floor, c) Murrum Floor, d) Cement Concrete Floor.
 - CC stands for, is; a) Cement Concrete, b) Copper Concrete, c) Cement Carbon, d) Cast Concrete.
 - From the following, component of a building is; a) Cement, b) Concrete, c) Column, d) Sand.
 - The longer side of the brick is referred as ; a) Header, b) Frog, c) Stretcher, d) None of the above.
 - For deep foundation; a) $B > D$, b) $B < D$, c) $B = D$, d) $B = 0$.
 - Engineering College is a type of; a) Recreational Building, b) Institutional Building, c) Residential Building, d) Commercial Building.
 - The lower most part of a structure is; a) Plinth, b) Column, c) Sub-Structure, d) Super Structure.
- Q.2 Short answer type questions (4 questions @ 2.5 marks) 10
- Define Building and enlist its various types?

ii.	Explain arch with a neat labeled sketch?	
iii.	Write a note on scaffolding?	
iv.	Describe bifurcated staircase?	
Q.3A	Describe load bearing structure in detail?	05
Q.3B	Describe framed structure in detail?	05
Q.4A	Describe Flemish bonds in brief?	05
Q.4B	Write down the requirements for a good staircase?	05
Q.5A	Define floor and state the requirements for good flooring?	05
Q.5B	Write note on glazed door and paneled door?	05
Q.6A	Write a note on English bond?	05
Q.6B	Describe foundation and its types?	05
OR		
Q.6B	Describe the precautions to be taken while working on high rise building?	05
Q.7A	Enlist various types of materials used in construction of a building and explain any two?	05
Q.7B	Explain any two types of floors?	05
OR		
Q.7B	Define roof and state the requirements for good roofing material?	05
Q.8A	Explain arch and describe the technical terms involved in it?	10
Q.9A	Compare brick masonry & stone masonry?	10
Q.9B	Describe header bond and stretcher bond?	10
OR		
Q.9B	Sketch and describe a staircase along with its technical terms?	10

Best of Luck
