

Printed Pages : 2



NAR-102

(Following Paper ID and Roll No. to be filled in your Answer Book)

**PAPER ID : 181112**

Roll No.

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**B. Arch.**

(SEM. I) (ODD SEM.) THEORY  
EXAMINATION, 2014-15

**CONSTRUCTION & MATERIALS - I**

Time : 3 Hours]

[Total Marks : 50

- Note :
- (i) Answer ALL questions.
  - (ii) Draw neat sketches with proper labeling.
  - (iii) Use appropriate scale for drawings.
  - (iv) individual observations and understanding will be appreciated

1. Why English bond is preferred over Flemish bond in brick masonry? Draw plans of two successive courses for 'Tee' junction for 230mm thick walls in English bond. **15**
2. With a neat sketch explain uncoursed rubble masonry and random rubble masonry. What are the different types of joints used in stone masonry? **15**

**OR**

2. What do you mean by foundation and what are its main objective? Draw plan of spread foundation upto plinth level and section of 300mm thick wall using standard modular brick. Show at least 3 footings and base with lean concrete.

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[Contd...

- 3.** Write notes on any three of the following: **10**
- (a) Racking back
  - (b) Weathering & Throating
  - (c) Cornices
  - (d) Coping
  - (e) Corbelling
- 4.** During the construction of a building, where shall you **10**  
use the following. (Attempt any three)
- (a) Granite
  - (b) Rapid hardening cement
  - (c) Slaking of lime
  - (d) Fly ash bricks
  - (f) Mixing process of concrete
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