



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

PAPER ID : 181112

Roll No.

B.Arch.

THEORY EXAMINATION 2015

BUILDING CONSTRUCTION – I

[CARRY OVER]

Time : 3 Hours]

[Total Marks : 100

1. Draw different types of stone masonry, mention its uses. Mention 5 tools that are used in stone masonry and for what purpose. Draw suitable sketches of the tools.

(20marks)

2. Cut a detailed wall section of a room measuring 4m x 3m. incorporate, foundation, flooring, sill, window, lintel, terrace flooring, coping in the diagram. Use proper scale, dimensions, levels and labeling to make your diagram better. (15 marks)

3. Draw measured sketches of following brick bats. Follow (1:10) scale. Incorporate dimensions, and labeling to make

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(1)

your sketches more readable. The bats are as follows:
(10 marks)

- a) Queen closer.
- b) Beveled closer
- c) King closer
- d) Queen closer – quarter.
- e) Mitered closer.

4. Explain the following with the help of definitions, equations and diagrams: (15 marks)

- a) Lime, its preparation and uses
- b) Cement, its manufacturing and its uses.

5. Draw a detailed section of a stepped foundation. Mention the uses of the foundation. Show reinforcement. Draw details sections of cill and lintel. Label with proposer dimensions and levels. (15marks)

6. Draw L- section of 1 and a half thick brick wall in Flemish bond. Draw plans, elevations and sections. (15marks)

7. Explain the following with definitions and diagrams: (10marks)

- a) Uses of sand and surkhi
- b) Joints in stone masonry
- c) Concrete and its uses.

—X—

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