

No. of Printed Pages : 03

Roll No. ....

**B-4001**

**B. Arch. EXAMINATION, May 2017**

(Second Semester)

(B. Scheme)

(Main & Re-appear)

ARCH.

AR-104-B

BUILDING CONSTRUCTION AND  
MATERIALS–II

*Time : 3 Hours]*

*[Maximum Marks : 75*

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Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

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**Note** : Q. No. 1 is compulsory and attempt any other *two* questions from the remaining *four* questions. Assume any missing data and state your assumption. Use cartridge sheets only.

**(1-01) M-B-4001**

**P.T.O.**

1. Write short notes on any *four* of the following with suitable free hand sketches :
  - (a) Defects of timber
  - (b) Types of veneers
  - (c) Components of Staircase
  - (d) Types of windows from points of view of openable type
  - (e) Carpentry tools and their use.
2. Explain different types of wooden staircase and their application with neat sketches.
3. Draw the sectional plan, sectional elevation and elevation of a single leaf flush door along with hardware for an opening of 900 mm (width) × 2100 mm (height) in one brick thick wall. Also draw the detail of fixing of frame with brick wall along with architrave in a suitable scale.
4. Draw sectional plan, sectional elevation and elevation and important details in openable position along with complete hardware of a window size 1800 mm (width) × 1800 mm

(height) with 50% openable area in exterior wall of 230 mm thick, having the projection of 450 mm at lintol level and Cill lvl 760 mm.

5. Design double flight wooden staircase for residential use. 900 mm (width), 3000 (height) and draw plan, elevation and with all possible fixing details. Also define nosing and ideal tread-riser ratio in staircase.