

1. Write short notes on any *three* of the following :
  - (a) Materials used in formwork design
  - (b) Types of cladding materials for public buildings
  - (c) Properties of tendons used in pre-stressing of RCC members
  - (d) Sound insulation materials for acoustic paneling.
2. Draw construction details of formwork for flat RCC roofing of size 12 m × 20 m with suitable spacing of beams of size 0.30 m × 0.76 m placed @ 4m c/c and secondary beam of size 0.30 × 0.45 m in centre along 20 m span.
3. Draw details for prefab RCC building showing its various joints for building size same as in Q. No. 2.
4. Draw waterproofing details for swimming pool of size 25 m × 50 m with 2.1 m depth, internal tanking details in both plan and section.
5. Draw and detail external cladding in Aluminum Composite Panel for public restaurant façade having 15 m front and 12 m height.

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430

No. of Printed Pages : 02

Roll No. ....

**H-4001**

**B. Arch. EXAMINATION, Dec. 2018**

(Ninth Semester)

(B. Scheme) (Main & Re-appear)

(ARCH)

AR503B

BUILDING CONSTRUCTION AND  
MATERIALS-IX

*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** : Attempt *three* questions in all. Q. No. **1** is compulsory. All questions carry equal marks.

(2-03/20) M-H-4001

**P.T.O.**