

No. of Printed Pages : 03

Roll No.

H-4001

B. Arch. EXAMINATION, May 2018

(Ninth Semester)

(Re-appear Only)

(ARCH.)

AR503B

BUILDING CONSTRUCTION

& MATERIALS-IX

Time : 3 Hours]

[Maximum Marks : 75

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.

Note : Attempt *three* questions in all, including Q. No. **1** that is compulsory. 1 mark is reserved for neatness and sketches.

(2-32/8) M-H-4001

P.T.O.

1. (a) Mention the application of Pile Foundation.
- (b) Write short note on the steel shuttering and scaffolding used in R.C.C. Work.
- (c) Explain the use of Plastics and PVC in construction of buildings.
- (d) Enumerate 05 advantages of using advantaged building construction materials. Also write their properties.
- (e) Differentiate between pre-stressed and post-stressed members in reinforced concrete. **4×6=24**

2. Write short notes on the following :

- (a) Pre-fabrication system invented by CBRI
- (b) Patented Formwork. **2×12.5=25**

3. Design the large span structure for a Banquet Hall of 30 m × 60 m. Mention the construction system used. Also draw 05 necessary construction in detail. **10+5+10=25**

4. Illustrate with the help of neat sketches and drawings :

- (a) Curtain Wall
- (b) Shell Structures. **2×12.5=25**

5. Draw typical section through outer wall of swimming pool. Assume the plan dimensions of the swimming pool. Also draw 05 necessary details of water proofing, tiling and drainage of swimming pool. **10+5+10=25**