

**BACHELOR OF ARCHITECTURE (CBCS - 2015 COURSE) B. Arch. Sem-
VIII :WINTER - 2021**

SUBJECT : BUILDING CONSTRUCTION AND MATERIALS – VIII

Day : Wednesday
Date : 22-12-2021

W-13579-2021

Time : 10:00 AM-01:00 PM
Max. Marks : 60

N.B.

- 1) **Q.No. 1 is COMPULSORY.** Out of remaining solve **ANY TWO** questions from Section – I.
- 2) Attempt **ANY THREE** questions from Section – II.
- 3) Answer to both sections should be written in **SEPARATE** answer book.
- 4) Figures to the **RIGHT** indicate **FULL** marks.
- 5) Assume suitable data if necessary.

SECTION – I

Q.1 Write short notes on **ANY TWO** of the following. **(10)**
a) Function of Balancing tank in swimming pool
b) Basic considerations while designing seating in a stadium
c) Roofing materials for stadium

Q.2 Draw plan and section to scale 1:50 of private swimming pool labeling important parts and give dimensions. **(10)**

Q.3 Draw plan and section of Indoor Badminton (7 m x 13m) Stadium with 5000 seats scale 1: 100. **(10)**

Q.4 Explain with sketches ‘shotcrete swimming pool’. **(10)**

SECTION – II

Q.5 Discuss high rise systems in steel material. **(10)**
Discussion (5 marks)
Sketches with annotations and dimensions. (5 marks)

Q.6 A semi-permanent structure for 30 stalls is to be provided for exhibition of new building materials. Draw plan to scale 1:100 and details of roof covering material. **(10)**
Labeled and dimensioned plan - (5 marks)
Details - (5 marks)

Q.7 Discuss roll of wind pressure and seismic considerations in design of high rise structures. **(10)**
With labeled sketches role of Wind pressure - (5 marks)
With labeled sketches seismic load - (5 marks)

Q.8 Discuss any two types of form work system for high rise structure. **(10)**
Each type discussion with labeled sketch - (5 marks per type)

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