

**B.ARCH. SEM – VIII (CBCS – 2015 COURSE) : SUMMER - 2019**  
**SUBJECT : BUILDING CONSTRUCTION AND MATERIALS – VIII**

**Day** : Thursday  
**Date** : 09/05/2019

**S-2019-3720**

**Time** : 10.00 AM TO 1.00 PM  
**Max. Marks** : 60

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**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.
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**SECTION – I**

- Q.1** Write short notes on **ANY TWO** of the following. **(10)**
- a) BIS stipulations for swimming pool
  - b) Effect of wind on stadium roof design
  - c) Materials for envelope of stadium
- Q.2** Draw section showing sight lines and roof system for stadium having 20 rows. **(10)**  
(scale 1:50)
- Q.3** Draw plan and section of private swimming pool of area 6m x 9m . – scale 1:50. **(10)**  
Label all parts.
- Q.4** Write note on swimming pool lighting (underwater and deck level lighting). **(10)**

**SECTION – II**

- Q.5** Discuss ventilation system in semi-permanent structure. **(10)**
- Q.6** Discuss foundations systems for high rise structures. **(10)**
- Q.7** Sketch detail of insulation material provided in semi-permanent structure. **(10)**
- Q.8** Discuss elevator systems for high rise structure. **(10)**

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