

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

Day: Tuesday
Date: 07/05/2019

Time: 02.00 PM To 05.00 PM
Max Marks. 60

S-2019-3718

N.B.

- 1) Q. No. 1 and Q. No. 6 is **COMPULSORY**.
- 2) Solve any **TWO** questions from **Q. No. 2/3/4/5**
- 3) Solve any **TWO** questions from **Q. No. 7/8/9/10**
- 4) Answers to both sections should be written in **SEPARATE** answer sheets.

SECTION - I

- Q.1** Write short notes on any **TWO** of the following (10)
- a) Space frames
 - b) Cofferdam
 - c) Cone of vision
- Q.2** Design Tensile structure for exhibition pavilion of size 20m × 20m. Give the construction details. (10)
- Q.3** Explain the waterproofing methods used for Basement construction. (10)
- Q.4** Explain the seating layout design criteria in Auditorium (10)
- Q.5** Explain the plank unit construction details in modular co- ordination. (10)

SECTION - II

- Q.6** Write short notes on any **TWO** of the following (10)
- a) Shell structure.
 - b) Hollow concrete floor.
 - c) Acoustical materials.
- Q.7** Propose a design for roofing over fuel station of 20m × 40m in space frame. (10)
- Q.8** Explain bearing capacity of soil and types of soils in Basement Construction. (10)
- Q.9** Explain different sound defects in Auditorium design (10)
- Q.10** Compare between pre cast constructions and cast in situ construction. (10)

* * *