

B.ARCH. SEM – VI (CBCS – 2015 COURSE) : SUMMER - 2018
SUBJECT : BUILDING SERVICES – IV

Day : **Wednesday**
Date : **02/05/2018**

S-2018-3314

Time : **10.00 AM TO 12.00 PM**
Max. Marks : 60

N. B. :

- 1) Attempt **ANY THREE** questions from each section.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Answers to both the sections should be written in **SEPARATE** answer books.
 - 4) Draw neat and labeled diagram **WHEREVER** necessary.
-

SECTION – I

- Q. 1** Write short notes with appropriate diagrams. (10)
- a) Sprinklers
 - b) Mechanical floor
- Q. 2** Explain with neat sketches the provision of dry riser hydrant system. (10)
- Q. 3** Write short notes with appropriate diagrams. (10)
- a) Service core locations and their advantage and limitations
 - b) Wet Risers
- Q. 4** Enumerate and discuss in brief all the precautions and design considerations for water supply system in planning of a high rise building. (10)
- Q. 5** Writes short notes with appropriate diagrams: (10)
- a) Zoned water supply system
 - b) Relevance of detectors and sensors

SECTION – II

- Q. 6** Write short notes with appropriate diagrams: (10)
- a) Sky-lobby elevator system
 - b) Enumerate with neat sketches different optimal and preferable elevator and lobby configuration
- Q. 7** Explain with neat sketches the components of hydraulic elevators. (10)
- Q. 8** Writes short notes with appropriate diagrams: (10)
- a) NBC bye-laws with regards to fire exits in a commercial mixed-use high-rise buildings
 - b) Two-pipe drainage system in high-rise buildings
- Q. 9** Role of building automation in achieving energy efficiency with examples of at least two services in high-rise building. (10)
- Q.10** Writes short notes with appropriate diagrams: (10)
- a) Sovent type drainage system in high-rise buildings
 - b) Sensors and controls in BAS