

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

Day : Saturday
Date : 24/11/2018

W-2018-3452

Time : 02.00 PM TO 04.00 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.
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SECTION – I

- Q. 1** Write short notes with appropriate diagrams. (10)
- a) Fire alarms and public address systems
 - b) Constant pressure up-fed water distribution in high-rise buildings
- Q. 2** Discuss with neat sketches different ways of planning service cores in high rise buildings with respect to suitability for building use type, pros and cons. (10)
- Q. 3** Write short notes with appropriate diagrams. (10)
- a) Traction type elevators
 - b) Bye laws for fire protection provisions in high rise buildings
- Q. 4** Explain in detail the up-fed and gravity water distribution systems with diagrams. (10)
- Q. 5** Writes short notes with appropriate diagrams: (10)
- a) Advantages of sovent systems over two-pipe system in high-rise buildings
 - b) Smoke detectors

SECTION – II

- Q. 6** Writes short notes with appropriate diagrams: (10)
- a) NBC code requirements for fire stairs in high-rise building
 - b) Advantages of building automation
- Q. 7** Discuss with diagrams the passive design strategies of fire protection in buildings. (10)
- Q. 8** Writes short notes with appropriate diagrams: (10)
- a) Zoned water supply system
 - b) Two-pipe drainage system in high-rise buildings
- Q. 9** Draw a flow chart of a BAS and explain the terms sensors, actuators and controls. (10)
- Q.10** Writes short notes with appropriate diagrams: (10)
- a) Types of fire extinguishers
 - b) Sensors and controls in BAS