

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

SUBJECT : BUILDING SERVICES –IV

Day : Friday
Date : 24-12-2021

~~W-13561-2021~~

Time: 02:00 PM-04:30 PM
Max. Marks :60

N.B.:

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

SECTION-I

- Q.1** Write short notes with appropriate sketches (**ANY TWO**) (10)
- a) Dumb Waiters
 - b) NBC code requirements for fire stairs in High Rise Building
 - c) Down comer system in Fire safety
- Q.2** Role of Building Automation System in achieving energy efficiency with explain (10)
of at least TWO services in High Rise Building.
- Q.3** Explain with neat sketches the components of Hydraulic Elevators. (10)
- Q.4** Explain in detail Up-feed and gravity water distribution system with diagrams. (10)

SECTION-II

- Q.5** Write short notes with appropriate sketches (**ANY TWO**) (10)
- a) Double deck Elevators
 - b) Wet Riser
 - c) Role of sensors in Building Automation System
- Q.6** Explain in detail Two pipe system with common vent pipe and Independent vent (10)
pipe system in High Rise Building.
- Q.7** Write short note with appropriate sketches (10)
a) Types of Loads acting on High Rise Building
b) Mechanical floor in High Rise Building.
- Q.8** Explain with neat sketches the provision of Dry Riser Hydrant System. (10)

* * * * *