

**Total No. of Pages : 02**

**Total No. of Questions : 09**

## B. Architecture (2012 & Onwards) (Sem.-8)

# HIGH RISE BUILDINGS – I

**Subject Code : BACH-805**

**Paper ID : [72749]**

**Time : 3 Hrs.**

**Max. Marks : 60**

**INSTRUCTIONS TO CANDIDATES :**

1. Question no.1 is **COMPULSORY**.
2. Attempt any **FOUR** questions from the rest.
3. Attempt any **ONE** questions from each unit.
4. **FIVE** questions are to be attempted in total.
5. Draw sketches to illustrate your answers. Where required, credit will be given for sketches.

**Q1. Write short notes on the following :**

(5×2=10)

- a) Waste disposal in High Rise buildings.
- b) Dampers in High rise buildings.
- c) Fire safety in High rise buildings.
- d) Vertical neighbourhoods in High rise buildings.
- e) Vertical transportation in High rise buildings.

## UNIT-I

- Q2. Give a brief overview of the development of High rise buildings. (12.5)
- Q3. What are the key factors influencing the design of contemporary high rise buildings? (12.5)
- Q4. Describe the various building technologies applied for the construction of facades in High rise buildings. (12.5)
- Q5. Discuss the structural systems applied for the construction of high rise buildings. (12.5)

## UNIT-II

- Q6. Describe in detail the challenges and methods of water supply in High rise buildings.(12.5)
- Q7. Describe the design strategies and application of building materials and technologies which ensure fire safety in high rise buildings. (12.5)
- Q8. With respect to the National Building code 2005 discuss the legal framework governing high rise buildings. (12.5)
- Q9. With reference to Architectural design, structural systems and construction technologies, Explain the unique characteristics of Burj Khalifa. (12.5)

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