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Total No. of Questions: 09

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

HIGH RISE BUILDINGS - I

Subject Code: BACH-805 M.Code: 72749

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

1. Question no.1 is COMPULSORY. Each part carries TWO marks.

- 2. Attempt any FOUR questions from the rest. Each question carries TWELVE AND A HALF (12.5) Marks.
- 3. Attempt any ONE questions from each unit.
- 4. FIVE questions are to be attempted in total.
- 5. Assume any missing data/dimensions. Draw neat sketches where necessary.

1. Explain briefly:

 $(2 \times 5 = 10)$

- a. Enlist various limitations of high rise buildings.
- b. Briefly discuss origin of high rise buildings.
- c. What are dampers in high rise buildings?
- d. What is full form of CTBUH?
- e. Why the location of water tanks and swimming pools is important in High rise buildings?

UNIT-I

- 2. Explain the role of high rise buildings in the present day with the help of suitable examples. Explain in detail their advantages and disadvantages. (12.5)
- 3. What are different technologies adopted for the construction of high rise buildings? Give suitable examples to support your answer. (12.5)

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- 4. Do you think innovation in the design of High Rise buildings can lead to good quality habitable and aesthetically pleasing spaces? Discuss with suitable examples. (12.5)
- 5. Discuss concrete and steel as construction materials employed for the construction of high rise buildings. (12.5)

UNIT-II

- 6. Explain how various fire safety issues are handled in high rise buildings. (12.5)
- 7. Explain how water supply services are integrated into the design of high rise buildings. (12.5)
- 8. What provisions for the design of high rise buildings have been made in National Building Code 2005. Discuss in detail? (12.5)
- 9. Write detailed notes on the following:
 - a. Empire Estate building (6)
 - b. Orchid woods, Mumbai

 (6.5)

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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