

PARUL UNIVERSITY
FACULTY OF ARCHITECTURE & PLANNING
B.Arch/B.ID Winter 2019-20 Examination

Semester: 7**Subject Code: 01102404****Subject Name: Advance Building and Interior Services****Date: 11/12/2019****Time: 2:00pm to 4:00 pm****Total Marks: 50****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever required.
4. Draw suitable sketches wherever required.

Q.1 What is Intergrated Building Management System (IBMS) and its importance in buildings. (10)
Breifly describe each sub-system of IBMS.

Q.2 Answer briefly (Any five) (20)

A. Define the following: (Any four)

- i) Fire Extinguisher
- ii) Intruder alarm
- iii) Infinity Pool
- iv) Zero entry pool
- v) Tranction lift

B. Explain the following with necessary sketches

- i) Hot water supply in buildings
- ii) Components of HVAC system

C. Explain in detail:

- i) Active and Passive fire protection system
- ii) Manufacturing, transportation and supply of cooking gas.

D. Explain in detail:

- i) Types of air-conditioning system
- ii) Mechanism of escalator with relevant sketches

E. Differentiate the following:

- i) Automatic and manual fire alarm system
- ii) Lifts and escalators

F. Answer the brief:

- i) Security and surveillance system in buildings
- ii) Categories of Fire

Q.3 Write a short note on the following (Any five) (10)

- 1) AHU
- 2) Public Address system
- 3) Stretcher lift
- 4) Travellator
- 5) Fire Sprinklers
- 6) Importance of service shafts in high rise buildings

Q.4 Explain the following: (Any two) (10)

- 1) What are major advantages and disadvantages of HVAC system?
- 2) Garbage disposal system in high-rise building with relavant sketches
- 3) Write note on disinfection and treatment of pool water? Describe Ancillary spaces of pool area.