

Seat No: _____

Enrollment No: _____

PARUL UNIVERSITY
FACULTY OF ARCHITECTURE & PLANNING
B.ID./B.ARCH Winter 2018-19 Examination

Semester: 7

Subject Code: 01102404

Subject Name: Advance Building and Interior Services

Date: 05/12/2018

Time: 02:00 pm to 04:00 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 Building Management System (BMS)? What are the services which can be monitored and controlled by building management system and state the advantages of using BMS in buildings? **(10)**
- Q.2** Attempt any five out of the following six: **(20)**
- 1) Enlist the factors to be considered while designing and placing vertical transportation in a building.
 - 2) Justify the importance of provision of services ducts in buildings.
 - 3) Explain the mechanism of Escalators
 - 4) Explain the following with relevant sketches: (any two)
 - a) Escalators and traveller
 - b) Traction Lift
 - c) Fire Hydrant & Sprinklers
 - 5) Explain the following with relevant sketches: (any two)
 - a) Lift Shaft & Pit
 - b) Stretcher Lift & Dumb-waiter Lift
 - c) Lift Machine Room & Machine Beam
 - 6) Differentiate between any one of the following:
 - a) Traction Lift & Hydraulic Lift
 - b) Lifts and Escalators
- Q.3** Explain the following: (any five) **(10)**
- 1) Garbage Disposals and refuse chutes in high rise buildings
 - 2) Air Conditioning System Components
 - 3) Water supply system in high rise buildings
 - 4) Fire protection systems in high rise buildings
 - 5) Ducts and Drainages in high rise buildings
 - 6) Domestic Cooking Gas supply and services related to it.
- Q.4** Answer the following: (any two) **(10)**
- a) Write note on disinfection and treatment of pool water? Explain related services required with a pool for the process.
 - b) Give your overview in the negative impact of BIM on the design process of an interior designer, with sensible explanation.
 - a) What are the advance security systems used in buildings? Explain advantages of using advance security systems such as C.C.T.V, glass break detectors, advance access controls, etc... in a building.