

Seat No: _____

Enrollment No: _____

PARUL UNIVERSITY
FACULTY OF ARCHITECTURE & PLANNING
B.Arch. Winter 2018-19 Examination

Semester: 7

Subject Code: 01101403

Subject Name: Advance Services

Date: 04/12/2018

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** Write an overview on advance building services used in Complex building situations (high-rise complex, hospitals, multiplex, stadiums, etc.) with relevant example. **(10)**
- Q.2** Attempt any five out of the following six: **(20)**
- 1) Answer the Following: (any four)
 1. How to identify types of fires for firefighting solutions?
 2. 1 TR/Ton = _____ BTU
 3. LED bulb range is available from ____W to ____W.
 4. Natural Liquid gas is mixture of contains.
 5. is the main component in HVAC system.
 - 2) Explain EPABX/PBX/PABX along with system components and their roles.
 - 3) Explain process of generation and distribution of Electricity in India
 - 4) Explain the supply and services related to domestic cooking gas (PNG).
 - 5) Explain the following:
 - a) Open wiring system
 - b) Concealed wiring system
 - 6) Explain the concept of Integrated Energy Management System.
- Q.3** Explain the following: (any five) **(10)**
- a) Fire detection and fire alarm system.
 - b) Collection, Storage and Disposal of waste (Solid / Liquid).
 - c) Implications of Acoustics in Multiplex.
 - d) Any Four types of Gas Distribution Systems.
 - e) Mechanisms of AHU
 - f) Mechanisms of HVAC
- Q.4** Answer the following (Any two) **(10)**
- a) Explain the concept of Building Management System.
 - b) Differentiate between Nuclear and Hydropower plant.
 - c) Explain the concept of Building Information Modelling (BIM).