Seat No:	Enrollment No:
	PARIII LINIVERSITY

PARUL UNIVERSITY

FACULTY OF ARCHITECTURE& PLANNING

B.Arch. Winter 2019-20 Examination

Semester: 7 Date: 10/12/2019

Subject Code: 01101403 Time: 2:00 pm to 4:00 pm

Subject Name: Advance Services 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 Explain the advance building services required in Institutional campuses with relevant example. (10)

Q.2 Attempt any five out of the following six:

(20)

- 1) Write a note on EPABX/PBX/PABX along with system components and their roles.
- 2) Fill in the Blanks:
 - 1. 36,000 BTU =Tons.
 - 2. is the full from of EER.
 - 3.is the main component in HVAC system.
 - 4. Class D type fire occurs due to.....
 - 5. distribution system of gas is preferable for urban areas.
- 3) Explain Smoke and Heat detecting systems.
- 4) Explain the supply and services related to domestic cooking gas (PNG).
- 5) Explain the concept of Building Management System
- **6)** Explain the following:
 - a) Open wiring system

b) Concealed wiring system

Q.3 Explain the following: Any 5

(10)

- a) Water supply in high rise buildings
- b) Components of HVAC
- c) Collection, Storage and Disposal of waste in High rise buildings (Solid / Liquid).
- d) Fire detection and fire alarm system.
- e) Any Four types of Gas Distribution Systems.
- f) Components of AHU

Q.4 Explain the following: Any 2

(10)

- a) Explain the concept of Building Information Modeling (BIM).
- b) Differentiate between Nuclear and Hydropower plant.
- c) Explain the concept of Integrated Energy Management System and energy recovering techniques associated with it.