

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

**Semester: 6****Subject Code: 01101353****Subject Name: Building Services and Equipment's - II****Date:14/05/2019****Time:02:00pm to 04:00pm****Total Marks: 50****Instructions:**

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

**Q.1** Explain and Elaborate the functioning of Telecommunication System for Highrise Buildings. (10)  
Explain the use of PABX System, its advantages and disadvantages.

**Q.2 Answer the following five out the six provided.** (20)

- 1) Explain what is Sub-Station for power supply Industry? Mention the types of Sub-Station.
- 2) Explain in brief Distribution Boards and its types in electrical services.
- 3) Explain what MEP services are along with its typologies used for buildings.
- 4) Describe the types of Chiller System, its advantages and disadvantages in HVAC Systems.
- 5) Explain Air Condition and its Classification in HVAC works.
- 6) What is AHU? What are the types of AHU's in HVAC works?

**Q.3 Explain the terms: (Attempt any five)** (10)

- a) Sound System
- b) Circuit Breaker
- c) Fuse
- d) HVAC System
- e) Optical Fiber Cable
- f) Building Automation and Control Systems

**Q.4 Answers for the following: (Attempt any two)** (10)

- 1) Explain the Air Distribution System in details with use of Ducts, Grills and Diffusers. Mention the types of Ducts, Grills and Diffusers.
- 2) Explain in brief the various types of Circuit Breaker with its use and difference between MCB and RCCB.
- 3) Explain the types of Electrical Wiring system in brief. Describe the types of Conduit Wiring, its advantages and disadvantages.