

Seat No: _____

Enrolment No: _____

PARUL UNIVERSITY
FACULTY OF ARCHITECTURE
B.Arch./B.ID., Summer 2017-18 Examination

Semester: 6

Subject Code: 01101353

Subject Name: Building Services & Equipment – II

Date: 08/05/2018

Time: 10:00 am to 12:00 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 a note on Fire alarm and detection systems. **(10)**

Q:2 a) **Answer the following as required: (Attempt any 5)** **(20)**

- b) Discuss earthing systems.
- c) Explain classification of fire.
- d) Discuss advantage and disadvantages of HVAC.
- e) Write a note on Fire Resistant material.
- f) Write a note on electricity generation through coal.
- g) **Define the following:**
 1. Compressor
 2. AFFF
 3. Condenser
 4. Antifreeze

Q:3 **Explain the following terms with sketch, if necessary: (Attempt any 5)** **(10)**

- a) Transformer
- b) Intercom
- c) Fax
- d) Deluge System
- e) Substation
- f) AHU

Q:4 **Answer the following accordingly: (Attempt any 2)** **(10)**

- a) Explain EPABX system.
- b) Discuss wiring systems; concealed and open.
- c) List down components of HVAC system. Explain any four in brief.