

Seat No: _____

Enrollment No: _____

PARUL UNIVERSITY
FACULTY OF ARCHITECTURE
B.arch Winter 2018-19 Examination

Semester: 5
Subject Code: 01101303
Subject Name: Building Services & Equipment - I

Date: 11/12/2018
Time: 2:00 pm to 4:00 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 brief note on 'Water Distribution Systems'. Draw a diagram for each of it. **(10)**

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

- 1) Define house drainage system. Discuss the aims and principles of it.
- 2) Explain water meter. Mention the characteristics of it.
- 3) Name few special traps and explain them with a diagram.
- 4) What is a Service Connection? Explain any two of its component with a sketch.
- 5) Discuss the requirements of a Water Closet.
- 6) Explain in brief Sludge Soak Pit.

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

- 1) Nani trap
- 2) Globe Valve
- 3) Single stack partially ventilated system
- 4) Sink
- 5) Bronze Ferrule
- 6) Polythene tube

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

- 1) Write a short note on Storage Tank. Draw a neat sketch of it.
- 2) Explain Mechanism of a Flushing Cistern with a diagram.
- 3) Write a note on Pipes used in house drainage system.