

Seat No: _____

Enrolment No: _____

PARUL UNIVERSITY
FACULTY OF ARCHITECTURE & PLANNING
B.Arch./B.ID. Winter 2019-20 Examination

Semester: 5

Subject Code: 01101303

Subject Name: Building Services & Equipment - I

Date: 03/12/2019

Time: 10:00am to 12:00pm

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 septic tank.

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

- 1) Nahni trap
- 2) Globe Valve
- 3) Single stack partially ventilated system
- 4) Sink
- 5) Ferrule
- 6) Anti Siphonage pipe.

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

- 1) Write a short note on Water 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.