

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

Semester: 5**Subject Code: 01101303****Subject Name: Building Services & Equipment- I****Date: 05/12/2017****Time: 02:00 pm To 04:00 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 ‘System of Plumbing’. **(10)**

Q.2 Answer the Following in brief. (**Attempt any five out of six**) **(20)**

- 1) What is a service connection? Explain any two of its components.
- 2) Explain displacement meter with a neat sketch
- 3) Discuss the factors affecting capacity of storage tank
- 4) What is a Valve? Explain different types of Valve.
- 5) Write a short note on types Water Closet.
- 6) Explain in brief, Mechanism of Flushing Cistern.

Q.3 Explain the following terms with sketch , if necessary. (**Attempt any five out of six**) **(10)**

1. Intercepting Trap.
2. Grid Iron System.
3. Two Pipe System
4. Wash basin.
5. Goose Neck.
6. Copper Tubing.

Q.4 Answer the following accordingly . (**Attempt any two out of three**) **(10)**

- 1) What is a Trap ? Write a brief Note on Classification of traps.
- 2) Write a short note on “Septic Tank” . Draw a neat sketch of it.
- 3) Define Water Distribution System. discuss the general considerations while laying distribution pipelines.