

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

Semester: 5**Date: 27/04/2019****Subject Code: 01101303****Time: 10:00am To 12:00pm****Subject Name: Building Services & Equipments – I****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 System'. Draw a diagram for each of it. **(10)**
- Q.2** Attempt any five out of the following six **(20)**
- 1) Different types of pipes used for plumbing. Along with its advantages and disadvantages.
 - 2) Define House Drainage System. Discuss aim and principles of it.
 - 3) Explain the types of traps with suitable sketches.
 - 4) List down sanitary fittings used in a building. Explain any two with a diagram.
 - 5) What is a Service Connection? Explain components of it with a sketch.
 - 6) Explain water meter. Mention the characteristics of it.
- Q.3** Explain the following terms with sketch wherever applicable: (any five) **(10)**
1. Nani trap
 2. Single stack partially ventilated system.
 3. Two pipe system
 4. Bathtub
 5. Inferential meter
 6. Anti-Siphonage pipe
- Q.4** Answer the following: (any two) **(10)**
1. Draw a neat sketch of Connection to water mains. Define its components.
 2. Write a note on Underground storage tank.
 3. Write a brief note on 'on 'Types of Water Storage''