

Paper Id: **181306**

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**BARCH**  
**(SEM III) THEORY EXAMINATION 2019-20**  
**ARCHITECTURAL SERVICES-I**

**Time: 3 Hours****Total Marks: 50****Notes:**

- *Attempt all Sections.*
- *Assume any missing data.*

**SECTION A****Q.1 Attempt any five questions.****(5x2=10)**

- a) Stop Valve
- b) Float Valve
- c) Non return/ check valve
- d) Turbidity
- e) fire hydrant
- f) Centrifugal Pumps
- g) Displacement pump

**SECTION B****Q.2 Attempt any four questions.****(4x5=20)**

- a) Difference between S trap and floor trap.
- b) Differentiate between Hard water and Soft water.
- c) Difference between Bib cock and pillar tap.
- d) What are pumps and its basic working Principal?
- e) Draw symmetric diagram for a residential building for the cold-water supply.
- f) What are valves? Explain air valve, reflux valve and relief valve.

**SECTION C****Q.3 Attempt any two questions****(2x10=20)**

- a) Draw plan of a toilet of 2400 mm x 1500 mm in appropriate scale  
 Assume any missing data
  - Showing types of valves
  - Toilet Fixtures
  - Traps
- b) what are the purposes and process of treatment of water? Explain with the help of sketches.
- c) What is septic tank? Explain principles involved in working of septic tank with the help of sketches.