

**Printed Pages : 2**



**AR406**

**(Following Paper ID and Roll No. to be filled in your Answer Book)**

**PAPER ID : 181411**

**Roll No.**

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**B. Arch.**

**(SEM. IV) THEORY EXAMINATION, 2014-15**  
**BUILDING SERVICES (WATER SUPPLY)**

**Time : 3 Hours]**

**[Total Marks : 50**

- Note :**
- (1) Question No. 1 is compulsory.
  - (2) Total four questions are to be attempted by the students.
  - (3) Support your answers with neat and labelled sketches.

**1** Design a attached toilet for principal room in a college for Ground Floor level. The details of the toilet are as below :

- W.C. (European) 1 no.
- Urinal 1 no.
- Wash basin 1 no.

Drawing requirements are as follows :

- (a) Layout plan showing the detail of various sanitary appliances with their connectivity to the inspection chamber to the private sewer line (scale 1 : 10) **12**

- (b) Hot and Cold water supply to the required places in the same plan. **8**
- 2** Explain the following through sketches : **5×2=10**
- (a) Valves and its types
- (b) Service pipe and Communication pipe.
- 3** (a) Discuss various materials used for pipes with their advantages and disadvantages. **5**
- (b) Explain different types of distribution patterns of water supply in city. **5**
- 4** (a) Explain with the help of sketches the service connection from the main distribution line to the residential building. **5**
- (b) Explain various water supply fixtures used in a building. Discuss any one in detail. **5**
- 5** Differentiate between : **5×2=10**
- Inspection chamber and Intercepting chamber
  - Drop Manhole and Lamp Hole.
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