

**SCHOOL OF PLANNING AND ARCHITECTURE, VIJAYAWADA**  
**B. ARCH, II YEAR- III SEMESTER EXAMINATION (REG), DECEMBER - 2014**  
**Building Science & Services – Water and Waste Management (BS 3)**

**Maximum Marks – 50**

**Time – 2.00 Hours**

- a) Answer any Three questions;*  
*b) Question NO. 5 is compulsory.*

- 
- Q1. Discuss various stages involved in Water distribution system by Local authority, starting from sources to distribution (15)
- Q2. Discuss 'Pump'. Describe various types of pumps by their 'usage' and their applications. (15)
- Q3. Describe Direct and Indirect Supply systems in Water distribution method and quote at least four types in four storied building (15)
- Q4. Discuss 'One pipe Stack system' with reference to Collection system of waste water at a multi storey building along with layout diagram. (15)
- Q5. Write short notes on any Four of the following: (4 X 5 = 20)
- a) Storm Water drainage network.
  - b) Types of 'Taps'.
  - c) Working procedure of 'S' trap with reference to WC along with Cross Section.
  - d) Any five pipe fixtures with reference to waste water pipe network.
  - e) Inspection Chamber along with Cross Section.
  - f) Classification of solid wastes.