SCHOOL OF PLANNING AND ARCHITECTURE, VIJAYAWADA

ARCH, II YEAR-III SEMESTER EXAMINATION (SUPPLEMENTARY), JAN- 2015

Building Science & Services — Water and Waste Management (BS - 3)

Maximum Marks — 50

Time — 2.00 Hours

- a) Answer any Threequestions;
- b) Question NO. 5 is compulsory.
- Q1. Discuss the Natural Hydrological Cycle along with diagram and geographical conditions. (15)
- Q2. Discuss the 'Pump'and the types of pumps based on their working principles in water distribution network at a residential settlement.
- Q3. Discuss various water distribution layouts along with diagrams. (15)
- Q4. Discuss two pipe stack system related to collection method of waste water in a multi storied residential unit along with diagram.
- Q5. Write short notes on any Four of the following (4 X 5 = 20) with diagrams / sketches wherever necessary:
 - a) RCC overhead tank along with its plumbing fixtures.
 - b) Working process of 'P' trap with reference to a water closet along with its cross section.
 - c) Types of water closets.
 - d) RCC septic tank
 - e) Wash basin along with waste pipe and floor trap
 - f) Rain Water Harvesting.