

SCHOOL OF PLANNING AND ARCHITECTURE, VIJAYAWADA

SEMESTER END EXAMINATIONS (REGULAR) APRIL – MAY – 2017

B. ARCH II YEAR IV SEMESTER

WATER SUPPLY & SANITATION (10110407)

Maximum Marks - 50

Time – 2.00 Hours

a) Answer any Two questions out of 1 to 4 questions.

b) Question No.5 is compulsory and answer any four out of six sub-questions.

- Q1. Explain about the origin of water. Write (15M)
in detail the 'sources of water' along with
neat sketches.
- Q2. Explain about systems of supply of water (15M)
at a community level and explain any two
of distribution layouts along with
sketches.
- Q3. Define pump. Explain about various (15M)
types of pumps according to their
function along with sketches.
- Q4. Write about various systems of sewerage (15M)
with reference to a residential multi-
storey building and explain any two
systems along with sketches.

P.T.O

Q5. Write short notes on any FOUR of the following:

(4x5=
20M)

- i. Define and explain the functioning Process of a 'Trap'.
- ii. Explain various materials available and their limitation while usage with reference to a 'pipe' in fresh water supply at a community level.
- iii. Draw a plan and cross section of a 'wash basin' along with dimensions.
- iv. Draw plan of a manhole of sewage line network having six branches.
- v. Explain about a septic tank for a residence along with plan and section.
- vi. Write the materials of sewer, at a community level.
