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B. Architecture (Semester - 4th)

BUILDING SERVICES - I

SUBJECT CODE: AR-405

Paper ID: May 2018

Regular / Reappear.
2015 Batch onwards.

Time: 03 Hours

Maximum Marks: 60

Instructions to Candidates:

- 1) Question No 1. is compulsory.
- 2) Attempt at least one question from each unit.
- 3) Attempt five questions in total.

- Q.1. a. What is per capita demand?
b. What are the different tests of a sewer lines?
c. One cubic feet volume contains how much water?
d. Write the full form of G.T., I.C., S.P., W.P., and V.P.
e. Sketch P-trap, Q-trap & S-trap.
f. How we can determine DWF?

(2X6=12)

UNIT - I

- Q.2. a. Explain the various layout patterns of water distribution for a city.
b. Describe Domestic water storage tanks (OHT).
- Q.3. Write illustrated notes on:
a. Various sources of water.
b. Hot water supply for residential buildings.

(6+6)

(6+6)

UNIT -II

- Q.4 a. Explain through sketches different types of joints used in Asbestos Cement pipes and Cast Iron pipes.
b. Write short notes on:
1. Flushing tanks
2. Water Closets
- Q.5. Draw sketches and write notes on the following:
a. Culverts and Ditches
b. Catch Basins and Drop Inlets

(5+7)

(6+6)

UNIT -III

- Q.6. a. Design and draw Plan & Section of a Septic tank for a farm house having 05 Toilets and one kitchen
b. Write illustrated notes on Rain water harvesting.
- Q.7 a. Describe with sketches one pipe and two-pipe system of sewage disposal for a multistoried building.
b. Differentiate between separate and combined systems of sewerage.

(7+5)

(7+)