

6. Write short notes on (any *five*) :

5×5=25

- (i) Fixture Unit
 - (ii) GPM
 - (iii) PPM
 - (iv) Reciprocating pump
 - (v) Waste management
 - (vi) Incinerator
 - (vii) Vent pipe
 - (viii) Upfeed Zone
 - (ix) Lead jointing of CI pipes
 - (x) Faucet.
- _____

Ex/Arch/T/315/4/2008

INTER ARCHITECTURE EXAMINATION, 2008

(1st Semester)

SERVICES AND EQUIPMENT-I

Time : Three hours

Full Marks : 100

Answer for 100 marks.

1. Using suitable sketches, describe how water becomes available in nature. Tabulate the limiting values of chemicals present in potable water. Tabulate the quantitative requirement of water for various building types. 25
2. Draw plan, elevation and section of a public men's toilet of an approximate area of 30 m². Show details of water supply and drainage including details of fittings wherever necessary. 25
3. Using suitable sketches, describe the process of treatment of water in a water treatment plant. 25
4. What do you understand by 'Intake Works'? Describe sewage, sewer and sewerage. Draw a cross section of a 'manhole'. How is it different from an inspection pit and a lamp hole? Describe the various techniques of changing of sewer line in a city. 25
5. Design a septic tank for 100 users. Draw plan, section and details of the tank and the soak-pit. Describe the process of treatment of sewage in a septic tank. 25

[Turn over