

2014

BUILDING SERVICES-I

Paper : 3.6

Full Marks : 100

Time : 3 Hours

*The figures in the margin indicate full marks
for the questions.*

1. Write short notes on the following (any 5) : 1×5
- a) Aquifer
 - b) Bib cocks
 - c) Reservoir clearance
 - d) Reverse Osmosis
 - e) Siphonage
 - f) Invert
 - g) IC
2. Fill in the blanks : (any 5) 1×5
- a) The desirable temperature of potable water is _____
 - b) The colloidal matter present in water interferes to the water.
 - c) The quantity of water lost and wasted during water supply process is termed as _____
 - d) Actual rainfall in a particular year _____ average annual rainfall.
 - e) _____ valves are used to remove sand and silt deposits in water pipes.
 - f) The consumption of water increases with _____ in water pressure.
3. Answer the following questions (any 5) 2×5
- a) What do you understand by FSL and DSL? Explain with a diagram
 - b) What is double filtration
 - c) What are the two types of hardness of water?
 - d) Explain infiltration wells and infiltration Galleries
 - e) What do you understand by pH value of water? How is it measured?
 - f) What are the two systems of water distribution based on duration of supply?

(2)

4. Distinguish between the following (any 4) : 4×5
- a) Deep well and tube well
 - b) Sewage and sullage
 - c) Nahni trap and Gully trap
 - d) Scour valves and sluice valves
 - e) Gravity system and pumping system of distribution.
5. Answer the following questions (any 3) : 3×20
- a) Explain the various types of water pollution.
 - b) What is the purpose of sanitation? Explain the principles of sanitation.
 - c) What are the traps and its function? Classify the various types of traps.
 - d) What are the methods of layout of distribution pipes? Explain with diagrams.

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