

Total number of printed pages: 2

Diploma/4th Semester/DCE402

2024

Water Supply and Sanitary Installation

Full Marks: 100

Time: Three hours

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

Answer any five questions.

1. a) What are the Conservancy System and the Water-carriage System of sanitation? Which one would you prefer for a modern city with a large population? State reasons. 10
b) What are traps? State the different traps used in sanitary fittings? 10
2. a) State the different materials used for manufacturing of sewers of different shapes. Explain their merits and demerits briefly. 10
b) State the merits and demerits of (a) separate system of sewerage; (b) combined system of sewerage. 10
3. a) Explain why it is necessary to have a proper method of sewage disposal system. 10
b) What are intakes? Where are they used? 10
4. a) What are the different kinds of pipe available for use in water supply system? Discuss merits of each. 10
b) With suitable figure, explain the Symon's Rain gauge in detail. 10
5. a) What is Run-off? Explain the hydrological cycle with suitable figure. 10
b) Explain briefly the process of cleaning a sewer pipe. 10

6. a) Draw a suitable figure showing the different components of a septic tank, and also explain the role of soak pit.
- b) State a method/technique to determine the Runoff of an area. What is impounding reservoir and how it is constructed?

10

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