

Register No.:

1526

October 2024

*Time - Three hours*  
*(Maximum Marks: 100)*

- [N.B.]**
1. Answer all questions under Part-A. Each question carries 3 marks.
  2. Answer all the questions either (A) or (B) in Part-B. Each question carries 14 marks.]

**PART - A**

1. What is water demand?
2. List the types of intakes.
3. Mention any three tests conducted on water.
4. What is the purpose of sedimentation tank?
5. Define dead end system.
6. How map and drawings are prepared for water supply scheme?
7. Write about the purpose of providing manhole.
8. Name the shapes of sewer.
9. Draw the flow diagram of primary treatment of sewage.
10. Write about the methods of solid waste disposal.

[Turn over.....

**PART - B**

11. (a) From the following census data, compute the probable population by (i) Arithmetical method (ii) Geometrical method in the year 2000, 2010, 2020.

Year	1960	1970	1980	1990
Population	19,200	27,500	35,200	45,000

(Or)

- (b) Discuss about the P.V.C Pipe and R.C.C Pipe with its advantages and disadvantages.
12. (a) Explain about the water treatment plant with its flow diagram.  
(Or)  
(b) Explain the working of rapid sand filter with a neat sketch.
13. (a) Describe about radial system and circular system with neat diagram.  
(Or)  
(b) Explain about various types of demand of water.
14. (a) Explain about various materials used for sewers.  
(Or)  
(b) Explain about sanitary fittings with a neat sketch.
15. (a) Explain the construction and working of trickling filters with neat sketch.  
(Or)  
(b) Discuss about the sources, effect and control of noise pollution.
-