

734

Register No.:

April 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. Mention any three objectives of public water supply system.
2. What are the joints used in pipe line connections?
3. Mention BIS standards of drinking water for the following -Hardness, Chlorides and pH Value.
4. What are the methods of disinfection?
5. What are the purpose of providing service reservoir?
6. Write short notes on reconnaissance survey.
7. Define Dry weather flow.
8. Write short notes on man hole.
9. What are the classifications of primary treatment of sewage?
10. Write short notes on EIA.

[Turn over.....

PART - B

11. (a) The following is the census data obtained from a town. By adopting Incremental increase method and Geometrical increase method in the year 2020, 2040 and 2060.

Year	1970	1980	1990	2000
Population	16000	27000	40000	55300

(Or)

- (b) Explain about various types of intake structure with suitable sketches.
12. (a) Explain about water treatment units with flow diagram.
(Or)
(b) Explain with neat sketch about working procedure of slow sand filter.
13. (a) Explain about different layout of distribution systems with neat sketch.
(Or)
(b) Explain about sources of water with neat sketch.
14. (a) Explain about laying and testing of sewer line.
(Or)
(b) Explain about any seven sewer appurtenances.
15. (a) Explain about Trickling Filter.
(Or)
(b) Explain about various methods of solid waste disposal.
