

Register No.:

563

April 2023

***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. Write any three points on need for protected water supply.
2. Define intake. Write the different types of intakes?
3. What is the purpose of sedimentation tanks? Where are they located?
4. What are the methods of Chlorination?
5. Compare with three points regarding Continuous system and Intermittent system.
6. How map and drawings are prepared for water supply scheme or project?
7. What are the two systems of sanitation?
8. What are the sanitary fittings used in drainage arrangement in buildings?
9. Draw grit chamber.
10. What are the necessities of solid waste disposal?

[Turn over.....

PART – B

11. (a) (i) What are the objectives of public water supply system? (7)
(ii) Explain about various types of demands? (7)
(Or)
- (b) Explain about river intake and canal intake with suitable sketches.
12. (a) Draw the flow diagram of a treatment plant and explain.
(Or)
- (b) (i) Explain about the treatment process of water? (7)
(ii) Explain about reverse osmosis. (7)
13. (a) What are the various system of conveyance and distribution of water? List out the merits and demerits of each one of them.
(Or)
- (b) Discuss in detail about (i) Preparation of Topographical map
(ii) Layout map of water supply scheme.
14. (a) Compare between Water carriage system and Dry carriage system.
(Or)
- (b) Explain in detail about lamp hole with neat sketch.
15. (a) (i) Explain about primary sedimentation tank. (7)
(ii) Explain about secondary sedimentation tank. (7)
(Or)
- (b) Draw flow chart of methodology of EIA and explain it.