



Civil Engineering

Vision: “To impart quality technical education beneficial to industry and the society in the field of Civil Engineering.”

- **Mission:** • To arrange academic and technical expertise.
 - To improve the practical knowledge of the student as per current scenario of industry.
 - To make the students socially and ethically responsible.

Assignment No :- 01

Subject : Public Health Engineering(22504)

Topic Name :- Sources, Quantity and Quality of Water

1. State the importance of Public Health Engineering.
 2. Draw layout of water supply scheme.
 3. State the various methods of forecasting of population. Explain any one.
 4. Define intake structure, state its types and explain any one.
 5. Explain different surface and subsurface sources of water.
 6. Draw a line diagram of water supply arrangement for residential building.
 7. Draw a labeled sketch of reservoir intake.
 8. State any four factors affecting demand of water.
 9. State permissible limits as per IS of drinking water.
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Date of Submission :-

Assign By :- Mr. Shashikant Hegonde



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Assignment No :- 02

Subject : Public Health Engineering(22504)

Topic Name :- Purification Of Water

1. State the objective of aeration process and describe any one method of aeration.
 2. Define coagulation and state any four coagulants commonly used.
 3. Describe theory of filtration.
 4. Describe working of rapid sand filter.
 5. Differentiate between slow sand filter and rapid sand filter.
 6. State the objects and methods of aeration.
 7. Define disinfection. State its objects.
 8. Draw a labeled sketch of clariflocculator.
 9. Enlist four forms of chlorination. Explain break point chlorination with graph.
 10. Compare plain sedimentation and sedimentation with coagulation.
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Assignment No :- 03

Subject : Public Health Engineering(22504)

Topic Name :- Conveyance and Distribution of Water

1. Draw a neat sketch of any two methods of distribution of water
 2. State any eight types of pipes used for conveyance of water.
 3. Describe grid iron system layout of distribution of water with suitable sketch.
 4. State the types of functions of distribution of water.
 5. State the location and function of following pipe fittings – Sluice valve, Air relief valve, Pressure relief valves, Reflux valve.
 6. Elist the methods.
 7. State purpose of calling tender.
 8. Define: i)Time limit ii)Validity of tender.
 9. State the necessity of corrigendum to tender notice.
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Assignment No :- 04

Subject : Public Health Engineering(22504)

Topic Name :- Domestic sewage and System of sewerages

1. State the importance and necessity of sanitation.
 2. Describe pre pipe plumbing system with net sketch.
 3. State different types of traps. Enlist quality of good trap .
 4. Draw a layout plan for building drainage.
 5. State suitability of two pipe plumbing system and draw a labeled sketch of it.
 6. Draw n neat and labelled sketch of drop manhole.
 7. Describe testing of sewers after construction.
 8. Draw the layout drainage plan for building sanitary fittings.
 9. State types of sewer and mention purpose of each.
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Assignment No :- 05

Subject : Public Health Engineering(22504)

Topic Name :- Characteristics And Treatment of Sewage

1. Describe aerobic and anaerobic treatment process.
 2. Describe working of trickling filter.
 3. Explain working of Septic tank.
 4. State MPCB norms for discharge treated sewage.
 5. Draw a layout of flow diagram of sewage treatment plant (STP).
 6. Differentiate between oxidation pond and oxidation ditch.
 7. Define BOD. State its significance in sewage treatment.
 8. Describe the process of sludge digestion.
 9. Explain function of grit chamber. State its location .
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