

# 31052-Environmental Engineering & Pollution Control

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## UNIT 1

### PART – A & B

1. What is water supply?
2. Why need protected water supply?
3. What is demand?
4. Define percapita demand.
5. Explain any three factor affecting demand.
6. Briefly explain the surface sources.
7. What is intake?
8. Draw the river intake.
9. What is pipe corrosion?
10. What is sacrificial electrode?
11. What are the type of pipe?
12. What is pumping?
13. What is water born disease?
14. How to collect the water sample?

### PART – C

1. Briefly explain the factors affecting demand.
2. Briefly explain the types of demand.
3. Explain the types of intakes.
4. Explain the control of corrosion.
5. Explain the pipe materials.
6. What are the joints used in pipe line?explain it.
7. Explain the types of pump?
8. Various testing of water?
9. Explain the source of water.

**UNIT 2**

**PART – A & B**

1. What is whole sum water?
2. What is contaminant water?
3. What is sedimentation?
4. What are the types of sedimentation?
5. Define coagulation?
6. Define disinfection?
7. What is mechanical straining?
8. Define softening?
9. What is pre chlorination?
10. Define post chlorination?
11. What is screening?
12. Define break point chlorination.
13. Explain the boiling.
14. Explain the mineral water.
15. Draw the grid system.
16. Explain the gravity system of supply.
17. Draw the elevated water tank?

**PART – C**

1. Briefly explain the sedimentation
2. Draw and explain the rapid and slow sand filters.
3. Briefly explain the chlorination.
4. How to softening the water.
5. Explain the system of water supply.
6. Explain the methods of water supply.
7. Briefly explain the disinfection.
8. Draw the layout of water supply.

**UNIT 3**

**PART – A & B**

1. Define sewage.
2. What is sullage?
3. What is sludge?
4. What is storm water?
5. What is sewer?
6. Define sewerage?
7. What do you mean by sewerage?
8. What is rate of flow?
9. Give the mannings formula?
10. Draw the shapes of sewer?
11. What is direct current?
12. What is refuse?
13. Define garbage?
14. What is invert?
15. Define dry weather flow?
16. Define self cleaning velocity?
17. What is domestic sewage?
18. What is municipal sewage?
19. Define separate system.
20. Explain the combined system.
21. What do you mean by partially separate system?
22. Give the empirical formula?
23. What is conservancy system?
24. Define Water carriage system.

**PART – C**

1. Explain the conservancy system and water carriage system.
2. Explain the methods of ventilation.
3. Briefly explain the pipe materials and joints.
4. Explain the cleansing of sewage.
5. What is catch basin explain it.
6. Draw and explain the grease and oil traps.
7. Draw and explain the manhole and lamp hole.

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### UNIT 4

#### PART – A & B

1. What are the objectives of sewage treatment?
2. Define sedimentation.
3. Why baffle wall provided in the septic tank?
4. Where septic tanks are provided?
5. What is BOD?
6. What is COD?
7. What is activated sludge?
8. What is pouching?
9. How to dispose the sludge?
10. What is negative skin?
11. Define rubbish?
12. What is residue?
13. Define hazardous waste?
14. What is sanitary land fill?
15. Define dumping?
16. Define incineration?
17. What is aerated lagoons.
18. Why septic tank is provided?
19. What is first contact time ?
20. Define detention period?

#### PART – C

1. Briefly explain the screen and skimming tank.
2. Explain the grit champers.
3. Briefly explain the contact beds.
4. Briefly explain the sand filters.
5. Explain the activated sludge process.
6. How to dispose the effluent from septic tank.
7. Explain the oxidation bonds.
8. Explain the methods of sludge disposal.
9. Briefly explain the solid waste management.

**UNIT 5**

**PART – A & B**

1. Define environment.
2. What is pollution?
3. What are the types of pollutions?
4. Explain the causes of air pollution.
5. Explain the causes of soil pollution.
6. Explain the causes of noise pollution.
7. Explain the causes of water pollution.
8. What are the effects of air pollution?
9. What are the effects of noise pollution?
10. What are the effects of water pollution?
11. What are the effects of soil pollution?
12. Define EIA.
13. Define EIS.
14. What is green house effect?
15. Define global warming.
16. Explain ozone layer depletion.
17. Define acid rain.

**PART – C**

1. Briefly explain the causes, effects, and control the noise pollution.
2. Briefly explain the causes, effects, and control the air pollution.
3. Briefly explain the causes, effects, and control the water pollution.
4. Briefly explain the causes, effects, and control the soil pollution.
5. Explain the methods of EIA.
6. Explain the review and limitation of EIA.