



SURYA POLYTECHNIC COLLEGE
Surya Nagar, Vikiravandi, Villupuram - 605 652

DEPARTMENT OF CIVIL ENGINEERING – III YEAR

Model Question Paper - I

Subject Name : Environmental Engineering.

Q.P. Code : 520

Time : 3 Hours

Subject Code : 4010520

Max. Marks : 100

[N.B:- (1) Answer all 10 Questions in PART – A and each Question carries 3 Marks.

(2) Answer division (a) or division (b) of each Question in PART – B and each Question carries 14 Marks.]

PART – A

10 x 3 = 30 Marks

1. Define water Supply systems ?
2. What are the Impurities Present in water ?
3. What are the Methods of Disinfection ?
4. Compare Intermittent supply system and continuous supply system?
5. What are the sewer appurtenance are provided in sewerage system ?
6. Write short notes on Grease and Oil trap ?
7. Define Grit Chamber ?
8. Write short notes on Energy from waste ?
9. Mention any four sources of Noise Pollution ?
10. State any three Goals of EIA ?

PART – B

5 X 14 = 70 Marks

11. (A) (i) What are the factors affecting Per Capita Demand Explain ?

(ii) The Population of five decades from 1970 to 2010 are given below. Find out the population after one, two and three decades beyond the last known decade by using Geometric Increase Method.?

Year	1970	1980	1990	2000	2010
Population	25000	28000	34000	42000	47000

(OR)

(B) (i) Write short notes on water borne diseases.?

(ii) What are the points to be considered to minimize the pipe corrosion.?

12. (A) (i) Describe with neat sketches about River Intake ?
(ii) Describe with neat sketch the construction, operation and working of Rapid sand filter.?
(OR)
- (B) (i) Explain Methods of Disinfection of water ?
(ii) Draw the layout map of the water supply scheme ?
13. (A) Explain briefly with neat sketch the various distribution system ?
(OR)
- (B) Draw the neat sketches and its salient components of (a) Elevated reservoir and (b) Surface reservoir.?
14. (A) (i) Explain the various methods of solid waste disposal.?
(ii) What are the materials used for repairs in buildings?
(OR)
- (i) Define cleaning of sewer. Why cleaning of sewer necessary?
(ii) Explain in details the drainage arrangements in building ?
15. A. (i) Describe briefly the effects of water pollution.?
(ii) Briefly explain with neat sketches of any two pollution control equipments?
(OR)
- B. (i) State the effects of air pollution on human beings.?
(ii) State the limitation of EIA.?