



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

**DEPARTMENT OF CIVIL ENGINEERING – III YEAR**  
**Model Question Paper - II**

**Subject Name : Environmental Engineering.**

**Q.P. Code : 401**

**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) Factors Affecting Per Capita Demand?
- 2) Name any two materials which are used as pipe ?
- 3) What is the Purpose (or) Object of Sedimentation ?
- 4) What are the system of water supply & Mention the methods of distribution system ?
- 5) Write short notes on principles of sanitation ?
- 6) What are the materials are used to make sewer ?
- 7) What are the types of screens according to size ?
- 8) Write short notes on soak pit ?
- 9) What are the sources of Water Pollution ?
- 10) What are the effects of Air Pollution on Human being ?

**PART – B**

**5 X 14 = 70 Marks**

- 11) (A) (i) What are the objectives of Public water supply system ?
- (ii) The Population of five decades from the year 1950 to 1990 are given below. Calculate the probable population in 2000 by using Incremental Increase method.?

Year	1950	1960	1970	1980	1990	2000
Population	10500	11430	14300	18750	21000	?

( 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 Reservoir Intake ?  
(ii) Explain the bacteriological tests on analysis of water.?  
( OR )
- (B) (i) What are the factors affecting Sedimentation ?  
(ii) Explain the Methods of Disinfection ?
- 13) (A) What is gravity system? Mention its Merits and Demerits ?  
( OR )
- (B) Draw the layout map of the water supply system and Explain ?
- 14) (A) (i) Compare the conservancy system and carriage system.?  
(ii) Explain the various methods of ventilation of sewers ?  
( OR )
- (i) Describe briefly with sketches (a) Catch basin (b) Lamp hole ?  
(ii) Write short notes on (a) Wash basin (b) Bath tub (c) Kitchen sink ?
15. A. (i) Write short notes on Grit chamber.?  
(ii) Write short notes on skimming tanks ?  
( OR )
- B. (i) State the effects of air pollution on human beings.?  
(ii) State the limitation of EIA.? `