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Roll No.:....

320613(20)

B. E. (Sixth Semester) Examination, April-May 2021

(Civil Engg. Branch)

ENVIRONMENTAL ENGINEERING-I

Time Allowed: Three hours

Maximum Marks: 80

Note: Part (a) compulsory of 2 marks. Select any two parts from (b), (c) and (d) carries 7 marks each.

Unit-I the man minimpel (a)

- 1. (a) Define population forecasting.
 - (b) Define intake and factors considered for intake site.

- (c) Write various water demands required, discuss in detail.
- (d) Predict the population for the years 2021, 2031, 2041 from the following census figures of a town.

	Year	Population	*
	1961	8, 58, 545	
May 2021	1971	10, 15, 672	2 do (2) . 1 . (8)
	1981	12, 01, 553	STITUTE LA LACT
	1991	16, 91, 538	
3-	2001	20, 77, 820	EVOIT
	2011	25, 85, 862	

Unit-II

- 2. (a) What do you mean by sedimentation?
 - (b) Write physical, chemical and biological characteristics of water.
 - (c) Explain jar test with neat sketch.
 - (d) Explain theory of sedimentation. Malagon and Claus J

Unit-III

- 3. (a) What is break point chlorination?
 - (b) Differentiate between rapid and slow sand filters.
 - (c) Write the name of several disinfection methods and describe one method with sketch.
 - (d) Explain water filtration process in detail.

Unit-IV

- 4. (a) Define reservoirs.
 - (b) Write requirement of Good Water Distribution System.
 - (c) Discuss with neat sketch about zeolite method.
 - (d) Write storage capacity of distribution reservoir.

Unit-V

- 5. (a) Define ppm and PM.
 - (b) Describe effects of air pollution in detail.
 - (c) Explain air pollution control methods in brief.
 - (d) Justify with neat sketch about Electrostatic precipitator.