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# 002504

**Jan. 2022** 

# B.Tech. (Civil)- V SEMESTER Environmental Engineering and Management// Environmental Engineering (PCC-CE306R//PCC-CE-306)

## Time : 90 Minutes]

[Max. Marks : 25

#### Instructions :

- 1. It is compulsory to answer all the questions (1 mark each) of Part-A in short.
- 2. Answer any three questions from Part-B in detail.
- 3. Different sub-parts of a question are to be attempted adjacent to each other.

#### PART-A

1.	(a)	What is per capita demand(q)?	(1)	
	(b)	What is Ion Exchange Method?	(1)	
	( <b>c</b> )	What is the maximum permissible TON for a domestic		
9		water supply source?	(1)	
	( <b>d</b> )	Explain COD.	(1)	
	(e)	What is anaerobic digestion?	(1)	
	(f)	Dioxin is released during which of the sol	d during which of the solid waste	
		disposal methods?	(1)	
	(g)	Why is electrostatic precipitator used?	(1)	
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- (h) What is the acceptable outdoor noise level in industrial areas? (1)
- (i) Why are storage tanks used? (1)
- (j) List the instruments used for measurement of turbidity. (1)

## PART-B

- (a) Convert 120 mg/cubic meter of SO<sub>2</sub> concentration into ppm. (3)
  - (b) Explain any *two* control devices for particulate air pollution. (2)
- (a) Two sources generate noise levels of 90 dB and 94 dB. Find the cumulative effect of these two noise levels on the human ear. (2)
  - (b) Explain with the help of a diagram: Time period, Amplitude, Wavelength. (3)
- 4. Explain any *five* water treatment processes. (5)
- Classify the types of Solid waste and explain solid waste disposal techniques. (5)
- 6. (a) Compute the fire demand for a city of 2 lac population (Use any formula of choice). (2)
  - (b) List some measures for monitoring and control of environmental pollution. (3)

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