

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

**BE - SEMESTER-V (OLD) EXAMINATION - WINTER 2018** 

Subject Code:150603 Date: 16/11/2018

**Subject Name: Environmental Engineering** 

Time: 10:30 AM TO 01:00 PM Total Marks: 70

**Instructions:** 

1. Attempt all questions.

- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a)	Explain the different factors affecting the rate of water demand.	07
•	<b>(b)</b>	Explain the interrelationship between various components of environment.	<b>07</b>
<b>Q.2</b>	(a)	Explain the BOD test with its significance and limitations.	<b>07</b>
	<b>(b)</b>	Write short note on wells and infiltration gallery.	<b>07</b>
		OR	
	<b>(b)</b>	Give the classification of different sources of water.	<b>07</b>
Q.3	(a)	What are the different methods of sewage disposal? Explain any one in detail.	<b>07</b>
	<b>(b)</b>	Explain the self-purification process of the stream and explain the different factors	<b>07</b>
		affecting the self-purification capacity of a stream.	
		OR	
Q.3	(a)	What is dB? Explain the effects of noise pollution.	<b>07</b>
	<b>(b)</b>	Enlist the different equipment used for control of particulate pollution. Explain	<b>07</b>
		any one in detail with its advantages and disadvantages.	
<b>Q.4</b>	(a)	Discuss the following.	<b>07</b>
		(1) Curb service. (2) Alley service.	
	<b>(b)</b>	Draw neat sketch and explain the following.	<b>07</b>
		(1) Gully trap (2) intercepting trap.	
		OR	
<b>Q.4</b>	(a)	Write short note on "EIA".	<b>07</b>
	<b>(b)</b>	Explain the effect of air pollution on human being and animal.	<b>07</b>
Q.5	(a)	State and explain classification of solid waste.	<b>07</b>
	<b>(b)</b>	State the principles of house drainage system.	<b>07</b>
		OR	
<b>Q.5</b>	(a)	What are temporary and permanent harnesses? Describe the method of	<b>07</b>
		determination of calcium hardness in the lab.	
	<b>(b)</b>	Describe mechanical composting.	<b>07</b>

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