GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V (NEW) EXAMINATION - WINTER 2017

Subject Code: 2150603 Date: 08/11/2017

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.

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Q.1*	(a)	Which are the sources of water? Mention the factors affecting selection of water source.	03
	(b)		04
	(c)	Explain DO Sag curve with neat sketch.	07
Q.2	(a)	Explain: How to forecast the population by Geometrical increase method?	03
	(b)	Define rubbish and garbage. Write composition of solid waste for Indian cities.	04
	(c)	Explain system of plumbing for house drainage with neat sketch. OR	07
	(c)	Which are the main components of house drainage system? Explain types of traps in detail.	07
Q.3	(a)	Enlist the pollutants in industrial wastewaters.	03
	(b)	1	04
	(c)	Explain factors affecting rate of water demand. OR	07
Q.3	(a)	Which are the conditions favorable for disposal by dilution method?	03
	(b)	-	04
	(c)	Enlist the characteristics of water and explain any two characteristics in detail.	07
Q.4	(a)	What is Sewage sickness?	03
	(b)	at 20°C is 0.12. Find ultimate BOD and 3 day BOD at 27°C.	04
	(c)	Explain sanitary land filling method for solid waste disposal. OR	07
Q.4	(a)	respectively. Find average pH of waste water.	03
	(b)	· · · · · · · · · · · · · · · · · · ·	04
	(c)	Why solid waste management is important. Draw solid waste management system flow chart with brief detail.	07
Q.5	(a)		03
	(b)	sources of Noise pollution?	04
	(c)	Enlist methods to control particulate matter from air. Discuss any one method in detail.	07
0.5		OR	0.2
Q.5	(a)	Which are the powers given to central government under The Environmental protection Act, 1986?	03
	(b)	<u>-</u>	04
	(c)	Define Air pollution and explain its classification in detail.	07
