Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER–IV(NEW) – EXAMINATION – SUMMER 2019

Subject Code:2143609 Date:20/05/2019

Subject Name: Industrial Pollution & Control

Time:02:30 PM TO 05:00 PM Total Marks: 70

Instructions:

1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

			MARKS
Q.1	**(a)**	Define solid waste, Air Pollution and field capacity.	**03**
	(b)	Write seven copies of Manifest	**04**
	(c)	Explain different categories of Biomedical Waste.	**07**
Q.2	**(a)**	Describe sources of solid waste.	**03**
	(b)	Explain in detail Multiple Effect Evaporator.	**04**
	(c)	Discuss liquid waste treatment in drug industry.	**07**
		OR	
	(c)	Explain solid waste management in pharmaceutical industry.	**07**
Q.3	**(a)**	Describe primary and secondary pollutants.	**03**
	(b)	Describe synthetic organic compounds and oil.	**04**
	(c)	Explain in detail Cyclone Separator with a neat sketch.	**07**
		OR	
Q.3	**(a)**	Describe working principle of scrubber.	**03**
	(b)	Define fog, dust, smoke and mist.	**04**
	(c)	Explain solid waste treatment in Energy Industry	**07**
Q.4	**(a)**	What are advantages and Disadvantages of Gravity Settling Chamber	**03**
	(b)	Describe chemical characteristics of solid waste.	**04**
	(c)	Explain liquid waste treatment in Glass Industry.	**07**
		OR	
Q.4	**(a)**	Define BOD, COD and influent.	**03**
	(b)	Describe significant features of landfill.	**04**
	(c)	Explain liquid waste treatment in textile industry.	**07**
Q.5	**(a)**	Explain liquid waste treatment in rubber industry.	**03**
	(b)	Describe in detail Incineration.	**04**
	(c)	Describe outline of effluent treatment plant.	**07**
		OR	
Q.5	**(a)**	Describe primary treatment of wastewater.	**03**
	(b)	Write down the advantages & disadvantages of ESP.	**04**
	(c)	Explain solid waste treatment in polymer industry.	**07**

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