Firstranker's GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER- VII (New) EXAMINATION - WINTER 2019

Subject Code: 2171302 Date: 23/11/2019

Subject Name: Air Pollution Control and Management

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

Instructions:

1. Attempt all questions.

plant with neat sketch

2. Make suitable assumptions wherever necessary.

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	3.	Figures to the right indicate full marks.	MARKS
Q.1	(a)	Discuss the importance of Air Quality Index.	03
V	(b)	•	04
	(c)		07
Q.2	(a)		03
	(b)		04
	(c)	•	07
		OR	
	(c)	What is Photochemical smog? Explain the effects of photochemical smog in brief.	07
Q.3	(a)	Discuss lime scrubbing throwaway process for removing SOx from flue gas.	03
	(b)	Explain the following process in brief for NO _X control (i) Air Staging (ii) Fuel staging	04
	(c)	"By reducing the combustion temperature during the combustion process will effectively reduce the favorable condition for NOx formation." Above statement is true? Give your comments. OR	07
Q.3	(a)		03
Ų.J	(b)		04
	(c)		07
Q.4	(a)		03
	(b)		04
	(c)	With neat sketch explain the construction & working principle of cyclonic scrubber. OR	07
Q.4	(a)		03
	(b)	•	04
	(c)		07
Q.5	(a)	Write a brief note on turbojet engine.	03
	(b)	Explain the phenomena of Ozone formation in the atmosphere.	04
	(c)	Identify the various sources pollution emitted from the metal industry	07
		and suggest the suitable pollution prevention/control measures OR	
Q.5	(a)	· · · · · · · · · · · · · · · · · · ·	03
	(b)	·	04
	(c)	Write brief note on control of air pollution in the coal base thermal power	07

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