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## CULLED AT TECHNICI OCICAL UNIVERSITY

		GUJAKAI IECHNOLOGICAL UNIVERSIIY BF - SEMESTER- V (New) EXAMINATION - WINTER 2019	
Sub	Subject Code: 2153504 Date: 25/11/2		
Sub	viect	Name: Air Pollution Control	_ • _ >
Time: 10:30 AM TO 01:00 PM Total Marks:			s: 70
Inst	ructio	ns:	
	1.	Attempt all questions.	
	2.	Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks.	MARKS
~ 4			
Q.1	(a)	Define: Air Pollution, Chimney, NAAQS.	03
	(b)	Explain effect of terrain and structure on pollutant dispersion with the help	04
	(a)	of field diagram.	07
	(C)	sources of poise?	07
•			0.2
Q.2	(a) (b)	Define: Necrosis, Power law, ESH.	03
	$(\mathbf{D})$	Discuss the working principle of Fabric filter with the beln of neat diagram	04 07
	(C)	OR	07
	(c)	Discuss the working principle of Cyclone separator with the help of neat	07
		diagram.	
Q.3	<b>(a)</b>	Explain Maximum Mixing Depth.	03
	<b>(b)</b>	Discuss the phenomenon of "Acid Rain".	04
	(c)	What do you understand by "Greenhouse effect"? How is it responsible for	07
		global warming? Discuss salient features of Kyoto Protocol.	
0.2	(a)	UK Discuss Ventilation coefficient and its significance	02
Q.3	(a) (b)	Discuss the phenomenon of "Photochemical Smog"	03
	(U) (C)	What do you understand by "CFC"? How is it responsible for Ozone layer	07
	(0)	depletion? Discuss salient features of Montreal Protocol.	01
Q.4	(a)	What following terms stand for: ODS, CEPI, CFC.	03
	<b>(b)</b>	Write a short note on Packed bed scrubber.	04
	(c)	What do you understand by Air quality modelling? What are the categories	07
		of models? Discuss in detail with their limitations.	
04	(a)	UR What following stored for AOL VOC CHC	07
Q.4 Q.5	(a) (b)	Write a short note on Electrostatic Precipitator	U3 04
	(U) (C)	Explain the Gaussian model with its assumptions and limitations	07
	(e) (a)	Define: Lanse rate Ozone layer depletion Ventilation coefficient	03
	(a) (h)	What is Plume Rise? Write any formula for its calculation	03
	(c)	Explain the term "inversion". Discuss all kind of inversion in detail.	07
	()	OR	
Q.5	<b>(a)</b>	Define: PAN, DALR, COHb.	03
	<b>(b)</b>	Discuss sources and impacts of sulphur dioxide.	04
	(c)	What is atmospheric stability? Discuss various types of plume behavior.	07