		Reg. No. :									
Question Paper Code: 58966											
B.E. / B.Tech. DEGREE EXAMINATION, NOV 2019											
	One credit Course										
		Chemica	al Engineering								
		15UCH866 - POLLUTIC	N CONTROL ENGIN	NEERING							
		(Regu	llation 2015)								
Dur	ation: 1.30 hours			Max	imum: 100	) Marks					
		Answer A	ALL Questions								
		PART A - (1	$0 \ge 1 = 10$ Marks)								
1.	What was the rank of India in Environment Performance Index amongst 178 countires participated during the year 2013										
	(a) <mark>95</mark>	(b) 135	(c) 155	(d) 115	i						
2.	Excess fluoride	Excess fluoride in water may cause									
	(a) straining of teeth excess		(b) urine								
	(c) diahhrea		(d) inflammation of lever								
3.	According to E pollutants?	PA of USA, the followi	ng is not one of the	six major		C01-					
	(a) Ozone	(b) Carbon monoxide	(c) Nitrogen oxides	s (d) Ca	arbon di-ox	ide					
4.	This is not a Green House gases										
	(a) CH <sub>4</sub>	(b) N <sub>2</sub> O	(c) O <sub>3</sub>		(d) N <sub>2</sub>						
5.	Which pollutant gas dissolved with human blood faster than oxygen										
	(a) SO <sub>2</sub>	(b) CO	(c) O <sub>3</sub>		(d) N <sub>2</sub> O						
6.	The Pollution Standard Index (PSI) scale has span from										
	(a) 0-200	(b) 0-300	(c) 0-400		(d) 0-500						
7.	The boiler flue gas is source of										
	(a) HCl (b) N	(a) HCl (b) NO (c) HF (d) Volatile organic compounds									

8.	The maximum permissible limit for suspended solids is					CO2-R						
	(a)	10 mg/l	(b) 20 mg/l	(c) 30 m	g/l		(d) 40 m	(d) 40 mg/l				
9.	Susj	pended solids are	measured by					CO2-R				
	(a)	Turbidity rod		(	(b)	Gravimetric	test					
	(c)	Chromatography	У	(	(d)	Jackson's tur	bidity meter					
10.	Ider	Identify the correct relation between the following?										
	(a) Dissolved solid = Total solid + Suspended solid											
	(b) Dissolved solid = Total solid – Suspended solid											
	(c) Dissolved solid = Suspended solid – Total solid											
	(d) Total solid = Dissolved solid / Suspended solid											
	PART - B (5 x 2 = 10 Marks)											
11.	What are sources of air pollution?							CO1-R				
12.	Explain the terms (i) Contaminants (ii) Disinfection C							CO1-R				
13.	List out some of the regulations on waste water Engineering.							CO1-R				
14.	Write some important properties of tracers.							CO2-R				
15.	Write the Mass balance principle C							CO2-R				
			PA	$ART - C (2x \ 15 = 3)$	0 M	larks)						
16.	<ul> <li>(a) Explain in detail about the provisions for attainment and CO1-U maintenance of national ambient air quality standards and provisions relating to mobile sources .</li> <li>Or</li> </ul>						CO1-U	(15)				
	(b)	Explain in detail data.	l about the ana	alysis of constituer	nt m	ass loading	CO1-U	(15)				
17.	(a)	Give the detail a waste water trea	account of phy tment.	visical unit operation	n in	volved in	CO2-U	(15)				
	Or $(b)$ Explain in detail about the policies and regulation of $CO2_{-}U$											
	(0)	environmental in	mpacts.	ncies and regulatio	0 10		02-0	(13)				