Reg. No. :					
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Question Paper Code: 59111

B.E. / B.Tech. DEGREE EXAMINATION, SEP 2020

Elective

Civil Engineering 15UCE911- AIR POLLUTION MANAGEMENT

		(Regulation	on 2015)				
Dur	ration: One hour	, -		Maximum: 3	0 Marks		
		PART A - (6 x	1 = 6 Marks				
	(Answer any Six of the	following Questio	ns)			
1.	Acid rain is caused by	of	CO1- R				
	(a) Ozone and dust	(b) SO ₂ and NO ₂	(c)SO ₃ and CO	$(d)CO_2$	(d)CO ₂ and CO		
2.	Among the following		CO1- R				
	(a) PAN (b)SO ₂		(c) CO	(d) Aer	(d) Aerosol		
3.	Which of the following	ng is a primary paramet	er which influences	air pollution?	CO2- R		
	(a) Humidity	(b) Solar Radiation	(c) Temperature	(d) Visi	(d) Visibility		
4.	Most favorable plum	e with respect to minim	izing air pollution is	S	CO2- R		
	(a) Fumigating	(b)Trapping	(c) Lofting	(d) Loo	ping		
5.	Particulate pollutant are						
	(a) Small solid particles and liquid droplets (b) Liquid droplets in						
	(c) Small solid particles released into the atmosphere (d) All of the above						
6.	Spray tower is a type	of			CO3- R		
	(a) Scrubbers	(b) Wet precipitators	(c) Fabric filter	(d) Cyclone se	eparators		
7.	Gravitational settling	chamber for removal	of particles exceeding	ng size	CO3- R		
	(a) 50µ	$(b)30\mu$	(c)20µ	(d) 40μ			
8.	is the r disperse in the ambie	nathematical simulation nt atmosphere.	on of how air po	llutants	CO4- R		
	(a) Wind speed		(b) Stack height				
	(c) Dispersion models		(d) Gaussian plume model				

9.	Which of the	(CO4- R			
	(a) Electro sta	tic precipitator	(b) Dyna	amic precipitator		
	(c) Spray towo	er	(d) Cycl			
10.	The Air (Prev central govern		of pollution) Act	was enacted by the	; C	CO4- R
	(a) 1981	(b)1982	(c)1983	(d) 1984		
		PA	$ART - B (3 \times 8 = 24)$	Marks)		
		(Answer an	y Three of the follo	wing Questions)		
11.	Explain in detail about the effects air pollution on vegetation.					(8)
12.	Explain in detail about the classification of Air Pollutants.					(8)
13.	. Explain in detail about the plume rise pattern with neat sketch.					(8)
14.	Explain the p	orinciple of operation	on and working of	Scrubbers with neat	CO3-U	(8)
	sketch.					
15.	Explain in det	ail about methods or	f zoning.		CO4-U	(8)