Question Paper Code: 49114

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

Elective

Civil Engineering

14UCE914-AIR POLLUTION AND CONTROL ENGINEERING

(Regulation 2014)

Duration: One hour Maximum: 30 Marks

PART A - $(6 \times 1 = 6 \text{ Marks})$

(Answer any six of the following questions)

(1.	mover any six of the	ionowing questions)	
Photochemical air pol	llution is due to		CO-1 R
(a) Carbon monoxide(c) Carbon dioxide		(b) Ozone	
		(d) Oxide of Nitrogen	
Nausea is caused due	to		CO-1 R
(a) Low level of inhalation of CO		(b) Low level of inhalation of CO ₂	
(c) Higher level of inhalation of CO		(d) Higher level of inhalation of CO ₂	
Secondary meteorolog	gical parameter is		CO-2 R
(a) Wind speed	(b)Wind direction	(c) Solar radiation	(d) Temperature
	• 1		CO-2 R
(a) Looping	(b) Fumigation	(c) Coning	(d) Fanning
5. Efficiency of cyclones if particle size ranges between 5-20 μ is			
(a) 45-75	(b) 50-80	(c) 55-85	(d) 60-100
are	used when the control	l efficiency requirements	CO3- R
are low to moderate r	ange of 50 to 90 %.		
(a) Wet scrubbers(c) Mechanical collectors		(b) Electronic precipitators	
		(d) Fabric filters	
	Photochemical air pole (a) Carbon monoxide (c) Carbon dioxide Nausea is caused due (a) Low level of inhal (c) Higher level of inhal (c) Higher level of inhal (a) Wind speed Which one of the atmospheric inversion (a) Looping Efficiency of cyclone (a) 45-75	Photochemical air pollution is due to (a) Carbon monoxide (c) Carbon dioxide Nausea is caused due to (a) Low level of inhalation of CO (c) Higher level of inhalation of CO Secondary meteorological parameter is (a) Wind speed (b)Wind direction Which one of the following plume b atmospheric inversion begins from the grout (a) Looping (b) Fumigation Efficiency of cyclones if particle size range (a) 45-75 (b) 50-80 are used when the control are low to moderate range of 50 to 90 %. (a) Wet scrubbers	(a) Carbon monoxide (b) Ozone (c) Carbon dioxide (d) Oxide of Nitrogen Nausea is caused due to

7.	HF range from alumin	CO	04 - R		
	(a) 0.123	(b) 0.124	(c) 0.125	(d) 0.126	
8.	The major contributor	is	CO	04- R	
	(a) Motor vehicle		(b) Industrial processes		
	(c) Stationary fuel combustion		(d) Burning of tyres		
9.	Hearing loss is possible at intensity of			CO)5- R
	(a) 7 dB	(b) 90 dB	(c) 45 dB	(d) 70 dB	
10.	Radon is responsible	CO	05- R		
	(a) Liver cancer	(d) Throat cancer			
		PART - B (3)	x 8= 24 Marks)		
	(Answer any three of t	the following questions)		
11.	Enumerate the differen	CO1- U	(8)		
12.	Enlist the five main la	CO2-U	(8)		
13.	Explain factors affect	CO3-U	(8)		
14.	Discuss in detail abou	CO4- U	(8)		
15.	Explain the sick prevention.	building syndrome	with its symptoms as	nd CO5-U	(8)