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Roll No.:..

337846(37)

APR-MAY2022

B. E. (Eighth Semester) Examination, 2020

(New Scheme)

(Mech. Engg. Branch)

ENVIRONMENT POLLUTION & CONTROL

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks; 28

Note: Attempt all questions. Part (a) is compulsory of 2 marks. Attempt any two parts from (b), (c) and (d).

Unit-I

1. (a) What is meant by 'Smog'? Discuss its cause and effects.

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	(b) Discuss the effect of air pollution on human health.	
		List all of them.	7
	(c) Write down the effect of air pollution on building	
34		materials, paints, textiles and paper industry.	7
202	(d) What is the mechanism of deterioration in polluted	
		atmosphere? Explain factors influencing atmospheric	
		detoriation.	7
2		Unit-II	
2	. (a) What do you mean by photochemical air pollution?	2
	(b) Discuss the effect of various parameters of I.C.	
		engines on air pollution.	7
	(c) Discuss the Ferrous Metallurgical operation and	
		explain different types of pollutions emitted form	
		ferrous metallurgical operations.	7
	(d) State the theory of formation of photochemical smog.	
		Write different photochemical reaction.	7
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3.	(a)	Define combustion and absorption.	2
	(b)	Explain the principle, construction and use of the Ringelmann chart for smoke measurement.	7
	(c)	Carbon Monoxide (CO) is present in standard atmospheric air at a concentration of 50 ppm. Compute I _p , S _p and W _p valves for the CO concen-	
		tration in the atmosphere.	7
	(d)	Explain the methods of control of air pollution by	
		process changes.	7
		Unit-IV	
4.	(a)	What are the reasons of using control equipment?	2
	(b)	What is the principle of inertial separators? Mention	
		the type of inertial separators, explain.	7
	(c)	With a neat sketch, explain the principles construction	
		and working of an electrostatic precipitators. List its advantages and disadvantages.	7
	(d)	What do you mean by taken into consideration for	
		choice of equipments?	7

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Unit-V

5,	(a) Define Air Pollution Index.	2
	(b) Explain the function of 'State and Central Board' on pollution control.	7
	political control.	
	(c) What is Acid Rain? What are the causes of acid	
	rain? How is the problem of acid rain overcome?	.7
	(d) Write down the salient features of Environment	
	Protection Act, 1986.	7
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