ONE TIME EXIT SCHEME

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Seventh Semester B.E. Degree Examination, April 2018 Automotive Air Pollution Control

Time: 3 hrs.

Max. Marks: 100

Note: Answer FIVE full questions, selecting at least TWO questions from each part

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		$\underline{\mathbf{PART}} - \mathbf{A}$							
1	a.	Discuss the influence of actual traffic conditions and vehicle maintenance or	the pollution.						
	b.								
2	a. b.	Describe the mechanism of formation of oxides of Nitrogen in CI engine. Explain the various forces of UBHC.	(10 Marks) (10 Marks)						
3	a.	Explain the terms: i) Soot formation ii) Pollysisses to be a second of the second of							
	b.	ii) Pollution control measures in SI engine. Briefly explain the Exhaust Gas Recirculation (EGR).	(10 Marks) (10 Marks)						
4	a. b.	Discuss any five properties of petrol which influence the exhaust emission. Discuss the effect of following on emission. i) Alternative fuels	(10 Marks)						
		ii) Lubricants.	(10 Marks)						
_		PART - B							
5	a. b.	With neat sketch, explain 3 way catalytic converter. Discuss various technique of NO _x treatment in diesel engine.	(10 Marks)						
			(10 Marks)						
6	a.	Explain the effect of air pollution on: i) Animals							
	b.	ii) Plants. Explain Global warming and its effects.	(10 Marks)						
		and its cheets.	(10 Marks)						
7	a. b.	List out the different gas sampling methods and explain any two in detail. Explain about the filter types of smokemeter.	(10 Marks) (10 Marks)						
8	a. b.	With neat sketch, explain gas chromatograph. Explain the construction and working of a orsat gas Analyzer, with neat sketch.	(10 Marks) (10 Marks)						

 \pm . Any revening of identification, appeal to evaluator and for equations written eg. 42+8=50, will be treated as malpractice.

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