Roll No.....

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	FIFTH SEMESTER	B. Tech.
	SUPPLIMENTARY EXAMINATION	February- 2018
AE-307 COMBUSTION GENERATED POLLUTION		
	Time: 03 Hours	Max. Marks: 40
	Note: All questions are compulsory. Attempt any five question Assume suitable missing data, if any.	
1What is fuel? Discuss different type of alternative fuels which		
affect global warming. List different type of emissions in diesel		
	engine and discuss it in short.	[8]
2. Explain why the constant volume combustion gives a higher		
indicated fuel conversion efficiency than constant pressure		
	combustion for same compression ra	
	3. List the commonly used alternative fuels, What are the	
		gine when use alternative fuel
	and discuss it in detail?	[8]
	<ol><li>What is biodiesel? Discuss the merits used in engine.</li></ol>	
		[8]
	5. What are the function of catalytic convertor? List the different performance parameters of the engine, and discuss it in detail.	
	portormanoo paramotors of the origin	[8]
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6. Explain the working principle of Stratified charged engines and non-dispersive infrared analyser. [8]
7. Explain in detail the formation of NOx in both S.I. engine sketch the

variation of Nox concentration with equivalence ratio and explain the reason for the same.

[8]

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