CBCS Scheme

	Automotive Engines	
	Fourth Semester B.E. Degree Examination, June/July 2018	
USN		15AU44

		Fourth Semester B.E. Degree Examination, June/July 2013	8
		Automotive Engines	
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1 11			Iarks: 80
	N	ote: Answer any FIVE full questions, choosing one full question from each mo	dule.
		Module-1	
1	a.	What is an Engine? Write the classification of I.C engine with neat sketches.	(08 Marks)
	b.	Explain the construction and working of Four stroke spark ignition engine.	(08 Marks)
		OR	
2	a.	With the help of a neat sketch, explain the construction and working of	Four stroke
		compression Ignition Engine.	(08 Marks)
	b.	Write the Theoretical and Actual valve timing diagram for a four stroke S-I	engine and
		explain.	(08 Marks)
		Module-2	6
3	a.	Explain with a neat sketch construction and working of a simple carburetor.	(00 May 13)
	b.	Write the Air – fuel ratio requirements of SI Engine.	(08 Marks) (08 Marks)
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F	7	OR	\$50°
ZA)	a.	With the help of a neat sketch, explain CRDI (Common Rail Diesel Injection) sys	tem.
	b.	Write a short notes on: i) Types of Nozzles ii) Types of governor	(08 Marks)
		Write a short notes on: i) Types of Nozzles ii) Types of governor	(08 Marks)
		Module-3	
5	a.	Explain the stages of combustion in C.I engine.	(08 Marks)
	b.	Write the factors affecting Ignition login SI engine and explain.	(08 Marks)
		OR	
6	a.	Explain the stages of combustion in SI engine.	(08 Marks)
	b.	Write the factors affecting Delay period in CI engine and explain.	(08 Marks)
		Module-4	
7	a.	With a neat sketch explain the Turbocharger with inter cooler.	(08 Marks)
	b.	Explain the working of Forced circulation cooling system with neat sketch.	(08 Marks)
0		OR	
8	a. b.	Explain with a neat sketch waste gate system used in a turbo-charge.	(08 Marks)
	υ.	Write the properties of coolants and explain in brief.	(08 Marks)
		Module-5	
9	a.	Explain the construction and working of pressure feed lubrication system.	(08 Marks)
	b.	Explain the properties of lubricants.	(08 Marks)
		OR	
10	a.	Explain with neat sketch splash lubrication.	(08 Marks)
	h	Explain with neat sketch mist lubrication system	(00 74 1)

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Explain with neat sketch mist lubrication system.

(08 Marks)

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.