(12 Marks)





Eighth Semester B.E. Degree Examination, June/July 2016 Automotive Engineering

Time: 3 hrs.

Max. Marks; 100

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

		V, 3	
		PART – A	
1	a.	List advantages of Aluminium alloy pistons.	(04 Marks)
	b		(08 Marks)
	C		
		following and also briefly explain them. i) IVO ii) IVC iii) Ignition iv) EVO	v) EVC.
			(08 Marks)
		70	ì.
2	a	. What are octane and cetane ratings for gasoline and diesel fuel?	(04 Marks)
	b	Explain with sketch working of carter carburetor.	(08 Marks)
	c	. With a neat sketch explain the working of fuel injector.	(08 Marks)
		. 82	
3	a	. What are the objectives of super charging?	(04 Marks)
	b	. With neat sketch explain the working of i) Vane blower ii) Roots blower.	(08 Marks)
	C	. What is turbo charger lag and explain how it can be controlled?	(06 Marks)
	d	. What is super charging?	(02 Marks)
		X V	
4	l a	. With a schematic diagram explain the working of transistor ignition system.	(08 Marks)
	b	. With sketch explain the working of vacuum advance.	(08 Marks)
	C	. What is ignition advance and list the factors affecting ignition advance?	(04 Marks)
		PART – B	
5	5 a	The state of the s	(06 Marks)
	b	The state of the s	(07 Marks)
	C	. With a neat sketch, explain the working principle of fluid coupling.	(07 Marks)
		76,	
(6 a	X Property of the second secon	(10 Marks)
	b	Explain the working of power steering. Mention the advantages of power steering.	(10 Marks)
	7 a	With neat sketch, explain the working of telescopic type shock absorber.	(10 Marks)
X	11	Draw the layout of a pneumatic breake system.	(08 Marks)
(0)	C	what is Anti-lock Bracking system (ABS)?	(02 Marks)
	8 a	. Explain various evaporative emission control system.	(08 Marks)

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b. Explain i) Air injection system ii) Air aspirator valve.

Important Note: 1. On completing your answers, co. illy draw diagonal cross lines on the remaining bland reated as malpractice. 2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will reated as malpractice.