



Eighth Semester B.E. Degree Examination, June/July 2019

Automotive Engineering

Time: 3 hrs.

Max. Marks:100

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

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		PART – A	
1	a.	Explain the various methods of cylinder arrangements used in multicylinder engin	nes.
			(08 Marks)
	b.	What are the various methods of engine cooling? Explain with sketches.	(12 Marks)
2	a.	Explain Octane number and Cetane number.	(08 Marks)
	b.	Sketch and explain Zenith Carburetors.	(12 Marks)
3	a.	Explain with neat sketches, types of superchargers.	(10 Marks)
	b.	Compare Turbochargers with mechanical superchargers.	(10 Marks)
4	a.	Explain "Battery coil ignition system" for four cylinder engine.	(10 Marks)
	b.	Explain with sketch vacuum advance mechanism.	(10 Marks)
		With neat sketch, explain single plate clutch.	
5	a.	With neat sketch, explain single plate clutch.	(10 Marks)
	b.	With neat sketch, explain working of "synchromesh gear box".	(10 Marks)
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6	a.	Define following and explain their effects on steering:	
		i) Camber	
		ii) King pin inclination	
		iii) Castor	
		iv) Toe in and Toe out	(08 Marks)
	b.	With a neat sketch explain Hotch-Kiss drive.	(12 Marks)
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7	a.	Explain with neat sketch, "laminated springs".	(08 Marks)
	b.	State advantages and disadvantages of hydraulic brake over mechanical brake.	(06 Marks)
	C.	Draw the neat sketch of "Master Cylinder".	(06 Marks)
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8	a.	Explain with neat sketch "Exhaust Gas Recirculation" system. Explain the sources of automotive exhaust gas emission. CMRIT LIBRARY	(10 Marks)
	b.	Explain the sources of automotive exhaust gas emission. Draw neat sketch of "Positive Cranck Ventilation System". RANGALORE - 560 037	(05 Marks)
	c.	Draw near sketch of "Positive Cranck Ventilation System".	(05 Marks)