11 1 09-MECH - 5su.

Code No: 56022

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech III Year II Semester Examinations, May - 2016

AUTOMOBILE ENGINEERING (Common to MSNT, ME, MCT)

Time: 3 hours

Max. Marks: 75

Answer any five questions All questions carry equal marks

	1.a) b) 2.a) b)	Discuss about the fuel supply system in S.I. engine. Explain about the different types of air filters. State purpose of providing radiator in cooling systems. What are the cooling systems in I.C.Engines? Explain air cooling system sketch.	[7+8] with neat [7+8]
		. What is clutch? Explain the operation of centrifugal clutch. Explain the operation of sliding mesh gear box and advantages.	[7+8]
	4.a) b)	Explain about the formation of spray in C.I. engine. Discuss about the chassis and body components in automobile.	[7+8]
		Explain in detail about the liquid cooling system with a diagram. Discuss about the bendix drive mechanism.	[8+7]
	6.a) b)	Describe about the pneumatic and vacuum brakes. Explain about the Ackerman steering mechanism with neat sketch.	[7+8]
	7.	Explain the different techniques of pollution control.	[15]
	8.a) b)	Discuss about the rigid axle suspension system. Explain in detail about the epicyclic gear box.	[7+8]
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