Code No: 126EH

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech HI Year II Semester Examinations, May - 2017

AUTOMOBILE ENGINEERING

B. Tech III Year II Semester Examinations, May - 2017		
AUTOMOBILE ENGINEERING (Common to ME, MCT)		
Time: 3 hours Max. Marks: 75		
A /	This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part A consists of 5 Units. Answer any one full question from each unit. Each question 10 marks and may have a, b, c as sub questions.	Part B carries
PART - A		
A (].a) b)	Define Chassis. What is MPFI system? Define thermostat.	Marks) [2] [3] [2]
c) d)	What are the requirements of a good spark plug?	[3]
e) f) g) h) i) j)	Define contact brakers. What is the function of a propeller shaft? What is King pin inclination? What is meant by Toe-in and Toe-out? Name the different alternative fuels. Define octane and Cetane numbers.	[2] [3] [2] [3] [2] [3]
PART - B		
	Classify the different types of carburettors. Show and explain with reason the mixture requirement for idling, cruising a power range at various throttle openings. OR	Marks) nd high [5+5]
3.a)	What is the function of Fuel-injection holder?	[5+5]
(4.a) (4.b)	Explain the different types of nozzles with neat sketches. What are the advantages of liquid-cooling systems Explain the working of thermo-syphon cooling system.	[5+5] \(\)
	Explain the World Street	
5 a)	OR	
5.a) b)	OR What are the factors that affect spark-advance. Briefly explain the working of the battery-ignition system with the help of a diagram.	circuit [5+5]
757	What are the factors that affect spark-advance. Briefly explain the working of the battery-ignition system with the help of a	(5+5) (5+5)

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