Seat No.: Enrolment No	Seat No.:	Enrolment No
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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V • EXAMINATION - SUMMER 2014

Subject Code: 1502010 Date: 17 Subject Name: Automobile Engines			7-06-2014	
Time: 10:30 am to 01:00 pm Total Marks: Instructions:			0	
	1. 2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a) (b)	Explain scavenging in detail? Discuss multi fuel engine?	07 07	
Q.2	(a) (b)	Differentiate between carburetors and multi point fuel injection? Deliberate CRDI system in detail? OR	07 07	
	(b)	Describe modern fuel used in automobile?	07	
Q.3	(a) (b)	Differentiate between knocking and detonation with required diagrams? Discuss types of combustion chamber? OR	07 07	
Q.3	(a) (b)	Write notes on properties of coolant and anti-freeze solution? Writes notes on good lubricant requirements and additives for lubricants?	07 07	
Q.4	(a) (b)	Differentiate between super charger and turbocharger? Write notes on lubricating pumps? OR	07 07	
Q.4	(a) (b)	Write notes on catalytic convertor? Discuss in brief flame propagation?	07 07	
Q.5	(a) (b)	Discuss Emission norms, in India? What is the information available from the valve timing diagram, explain with example?	07 07	
OR				
Q.5	(a) (b)	Discuss in detail important of compression ratio with essential graph? Discuss heat balance sheet for four stroke CI engine?	07 07	
