GUJARAT TECHNOLOGICAL UNIVERSITY M. E. - SEMESTER – I • EXAMINATION – WINTER • 2013

Subject code: 711102NDate: 26-12-2013Subject Name: Fundamentals of IC Engine and AutomobileTime: 10.30 am - 01.00 pmTotal Marks: 70Instructions:1. Attempt all questions.2. Make suitable assumptions wherever necessary.3. Figures to the right indicate full marks.			
Q.1	(a)	Explain microprocessor and micro computer application in automobile?	07
	(b)	Explain valve timing diagram of two stroke petrol engine?	07
Q.2	(a)	List vibration dampers used in IC Engine? Give important of it?	07
	(b)	What is Air capacity of engine? Discuss factors affecting it? OR	07
	(b)	List engine components? Give important of piston rings and oil ring? Also give name of material used for these rings?	07
Q.3	(a) (b)	What do you mean by carburation? Explain principal of carburetor with diagram? Explain solex carburetor in detail?	07 07
Q.3	(a)	OR Discuss in detail concept of multipoint fuel injection system?	07
Qie	(b)	Discuss injection system components of CI engine?	07
Q.4	(a)	Describe fuel injector in detail?	07
	(b)	Discuss low heat rejection engine? OR	07
Q.4	(a)	Recent development in IC engine?	07
	(b)	Explain, VVT technology in IC engine?	07
Q.5	(a)	Discuss Automotive electrical system?	07
	(b)	Discuss, Latest suspension system used by recent Indian car? OR	07
Q.5	(a)	Explain tyre troubles and its solution in detail?	07
	(b)	Discuss in detail recent automobile steering system?	07
