Sea	ıt No.:	Enrolment No	
		GUJARAT TECHNOLOGICAL UNIVERSITY	
		M. E SEMESTER - II • EXAMINATION - SUMMER • 2014	
Su	bject	code: 1721106 Date: 27-06-2014	
	•	Name: Automobile Maintenance & Pollution Control	
Ti	me: 0	2:30 pm - 05:00 pm Total Marks: 70	
In	struc	etions:	
		Attempt all questions.	
		Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks.	
Q.1	(a)	What is Engine Maintenance? Why is it required? Explain schedule maintenance in detail.	07
	(b)	Water comes out in petrol engine, does it call tuning? Explain briefly methods of tuning in petrol engine. Is it possible tuning in diesel engine?	07
Q.2	(a)	Sometimes there is a vibration on steering wheel, what is the main cause for it? Explain wheel balancing.	07
	(b)	Explain various engine cleaning methods for engine components. OR	07
	(b)	What do you mean by smog? Explain formation of smog in environment.	07
Q.3	(a)	Explain Continuous variable transmission system with sketch.	07
	(b)	Write a short note on C.M.V.R pollution norms.	07
		OR	
Q.3	(a)	Explain catalytic converter with neat sketch.	07
	(b)	What is the use of adding additives? Explain fuel additives used in petrol engine and diesel engine.	07
Q.4	(a)	Explain bleeding of brake with neat sketch.	07
	(b)	Write a short note on maintenance of ignition system. OR	07
Q.4	(a)	What do you mean by anti-freezing and anti-corrosion additives used in SI and CI engine? Explain effects of anti-freezing and anti-additives on SI and CI engine.	07
	(b)	What is the purpose of charcoal canister in SI Engine? Explain positive crankcase ventilation system with neat sketch.	07
Q.5	(a) (b)	Explain maintenance and care of storage batteries. What do you mean by Energy recovery? Why it is required? Explain Energy recovery from municipal and industrial solid waste.	07 07
Q.5	(a)	OR Explain maintenance, servicing and repair of Constant mesh gear box.	07
ų.s	(a) (b)	What is the need of trouble shooting chart? Draw trouble shooting chart of hydraulic brakes for a car.	07
