Seat No.: _____

Enrolment No.____

GUJARAT TECHNOLOGICAL UNIVERSITY

M.E –II st SEMESTER–EXAMINATION – JULY- 2012			
Subject code: 1721106 Date: 16/07/2012			
		Name: Automobile Maintenance & Pollution Control	
Time: 10:30 am – 13:00 pm Total Marks: 70			
Inst	ructi	ions:	
1.	Att	empt all questions.	
		ke suitable assumptions wherever necessary.	
3.	Fig	ures to the right indicate full marks.	
Q.1	(2)	Discuss about the scheduled and unscheduled engine maintenance.	07
~ ••		Give causes and remedies for following troubles of automobile.	07
	()	(i) Engine is not starting (ii) Wheel wobble	
Q.2	(a)	Define Engine Tuning. Explain briefly the tuning procedure for petrol engine car.	07
~· =	(b)	What are the various cleaning methods for engine components?	07
	(~)	OR	•••
	(b)	What are the common troubles in clutch and suggest your remedies for them.	07
Q.3	(a)	What is called bleeding of hydraulic brake system? Explain it.	07
C	(b)	Describe common damages to tyres with their repairs. Also give your comments on	07
		tyre rotation for vehicle control and safety.	
		OR	
Q.3	(a)	Explain maintenance and servicing of Manual and Power steering systems.	07
	(b)	Write a short note on maintenance of ignition systems.	07
Q.4	(a)	Explain in detail about emission of SI engine	07
	(b)	Write short note on Fuel additives.	07
		OR	
Q.4	(a)	Explain the construction of catalytic converter.	07
Q.4	(b)	What are the effects of automobile pollution?	07
Q.5	(a)	Write a short note on European pollution norms.	07
	(b)	Explain characteristics of solid waste and potential methods of solid waste disposal.	07
		OR	
Q.5	(a)	Explain the exhaust gas recirculation with a sketch.	07
	(b)	Explain the different methods used for controlling pollution from vehicles.	07
