Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

ME - SEMESTER II- EXAMINATION - WINTER - 2016

u			Date: 19/11/ 2016	
Ti	me: 2 truction 1.	t Name: Automobile Maintenance and Pollution Control 2:30 pm to 5:00 pm Total Marks: ons: Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	70	
Q.1	(a) (b)	Differentiate major and minor services for engine. What are the effects of CO, CO ₂ , HC, NO _x , SO ₂ in environment?	07 07	
Q.2	(a) (b)	Discuss Indian pollution norms as per central motor vehicle acts. Explain energy recover from municipal and industrial solid waste. OR	07 07	
	(b)	How automobile exhaust emission (air pollution) control in vehicles?	07	
Q.3	(a)	Give the major troubles of the steering system-manual along with necessary remedies and causes.	07	
	(b)	Explain tyre rotation and maintenance of tyre. OR	07	
Q.3	(a)	Give the major troubles of the power steering system along with necessary remedies and causes.	07	
	(b)	Explain importance of repair and servicing of clutches.	07	
Q.4	(a) (b)	Discuss about importance of lubrication and lubrication charts. Describe common maintenance of ignition systems. Discuss its in details. OR	07 07	
Q.4	(a) (b)	Write short note on battery testing methods. Write short note on MPFI maintenance system.	07 07	
Q.5	(a) (b)	Write short note on catalytic converter with neat sketch. Discus on black exhaust smoke and blue exhaust smoke for heavy diesel vehicles.	07 07	
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Q.5	(a) (b)	Explain cooling system service and additives of coolant. Explain exhaust gas recirculation system in engine.	07 07	
