GUJARAT TECHNOLOGICAL UNIVERSITY

ME - SEMESTER-II(New course) EXAMINATION(Remedial) -WINTER 2015

Subject Code: 2721106 Date:10/12/2015

Subject Name: Automobile Maintenance and pollution Control

Time:2:30 Pm to 5:00 Pm Total Marks: 70

Instructions:

1. Attempt all questions.

2. Make suitable assumptions wherever necessary.

3. Figures to the right indicate full marks.

Q.1	(a) (b)	Why smoke formation is occur in case of C.I. engine? Explain Indian pollution norms as per C.M.V.R.	07 07
Q.2	, ,	Differentiate wheel balancing and wheel alignment.	07
V.2	(b)	What is need of tyre rotation in case of 4 wheeler vehicle? OR	07
	(b)	Write short note on anti-freezing solution. State its name.	07
Q.3	(a)	Define engine tune up and explain tuning procedure for diesel engine.	07
	(b)	Describe chassis frame alignment and frame defects. OR	07
Q.3	(a)	Differentiate major and minor services for engine.	07
	(b)	Write short note on trouble shooting chart of hydraulic brakes system.	07
Q.4	(a)	Describe MPFI system and its trouble shooting.	07
	(b)	Explain EGR system used in automobile. OR	07
Q.4	(a)	Enlist tyre defect and explain tyre re-treading system.	07
	(b)	Explain catalytic convertor with neat sketch.	07
Q.5	(a)	Enumerate sources of emission in auto vehicle	07
	(b)	How energy recover from the municipal waste. OR	07
Q.5	(a)	What are the various ways to control the exhaust emission in vehicle?	07
	(b)	How energy recover from the industrial solid waste.	07