

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

M.E –IIst SEMESTER–EXAMINATION – JULY- 2012

Subject code: 1721106

Date: 16/07/2012

Subject Name: Automobile Maintenance & Pollution Control

Time: 10:30 am – 13:00 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) Discuss about the scheduled and unscheduled engine maintenance. **07**
(b) 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**
(b) Describe common damages to tyres with their repairs. Also give your comments on tyre rotation for vehicle control and safety. **07**
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**
