

GUJARAT TECHNOLOGICAL UNIVERSITY**M. E. - SEMESTER – II • EXAMINATION – SUMMER • 2013****Subject code: 1721106****Date: 10-06-2013****Subject Name: Automobile Maintenance and Pollution Control****Time: 10.30 am – 01.00 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) Give causes and remedies for following troubles of automobile. **07**
(i) Engine runs but misses in one cylinder (ii) Engine cranks slowly but will not start
- (b) Discuss Engine maintenance in detail? **07**
- Q.2** (a) Give good suspension system requirement and discuss maintenance of air suspension in detail? **07**
- (b) Explain service and maintenance of anti-roll bar and wheel rim in detail? **07**
- OR**
- (b) Explain service and maintenance of torque tube and propeller shaft in detail? **07**
- Q.3** (a) Explain brake bleeding and brake adjustments in detail? **07**
- (b) Explain frame defect and chassis alignment? **07**
- OR**
- Q.3** (a) Explain maintenance of automobile steering system? **07**
- (b) Discuss in detail Maintenance of automobile cooling system? **07**
- Q.4** (a) What is lubrication chart? Explain maintenance and care for automobile battery? **07**
- (b) Explain step for MPFI maintenance in detail? **07**
- OR**
- Q.4** (a) What do you mean by tyre services and reconditioning of tyre, discuss in detail? **07**
- (b) Discuss sources of automobile pollution and its effect on human being in detail? **07**
- Q.5** (a) Write notes on catalytic convertor? **07**
- (b) Discuss BHARAT norms for pollution? **07**
- OR**
- Q.5** (a) Explain EGR(exhaust gas recirculation)? **07**
- (b) Discuss Energy recovery from solid waste? **07**
