

GUJARAT TECHNOLOGICAL UNIVERSITY**BE- Vth SEMESTER–EXAMINATION – MAY/JUNE - 2012****Subject code: 150204****Date: 07/06/2012****Subject Name: Automobile Maintenance and Repair Practice****Time: 02:30 pm – 05:00 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) Explain types of vehicle maintenance with suitable examples. **07**
(b) What is maintenance schedule chart? Prepare schedule chart for ignition and engine cooling system of a petrol car. **07**

- Q.2** (a) Enlist the tools required to measure cylinder wall wear and explain the procedure for measurement of cylinder wall wear. **07**
(b) List the instrument used for measurement of engine noise. Explain various tests performed for diagnose the sources of engine noise. **07**

OR

- (b) Explain the methods for measurement of fuel consumption. Enlist the possible causes for excessive fuel consumption. **07**

- Q.3** (a) Explain the following methods for cylinder reconditioning. **07**
(i) Cylinder boring
(ii) Cylinder honing
(b) Explain the inspection and service procedure for (i) Engine valves (ii) Engine piston **07**

OR

- Q.3** (a) Explain the testing & servicing of diesel fuel injector and multipoint gasoline fuel injector. **07**
(b) List the possible causes for the following complaint. **07**
i) Hard shifting into gear
ii) Gear slips during shifting

- Q.4** (a) Why balancing of wheel is required? Explain the procedure for wheel balancing. **07**
(b) What is hydraulic bleeding? When bleeding of brake is required? Explain the procedure for bleeding of brakes. **07**

OR

- Q.4** (a) (i) What are the possible causes when car pulls to one side during normal driving? **03**
(ii) Explain the procedure for adjustment of wheel alignment angles. **04**
(b) Discuss types of automotive lubricants used in servicing of automotive vehicle. **07**

- Q.5** (a) Draw workshop layout and discuss the functions and operation of service station. **07**
(b) Enlist the automotive service and diagnosis equipment used in garage and describe the function of each equipment. **07**

OR

- Q.5** (a) What is the necessity of job cards? Prepare job card for passenger car. **07**
(b) Discuss the activities of workshop management. **07**
