

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**BE - SEMESTER-V • EXAMINATION – SUMMER • 2015**

**Subject Code: 150204****Date: 15/05/ 2015****Subject Name: Automobile Maintenance and Repair****Time: 02.30pm-05.00pm****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) Define maintenance. Differentiate clearly between Break down and Predictive maintenance practices. **07**
- (b) What is job card? Prepare job card for four wheelers. **07**
- Q.2** (a) Explain the instruments used for measuring fuel consumption and speed. **07**
- (b) List the instrument used for measurement of engine noise. State different tests performed for diagnose the sources of engine noise and explain any one of them. **07**
- OR**
- (b) Explain the methods for measurement of fuel consumption. Enlist the possible causes for excessive fuel consumption. **07**
- Q.3** (a) State the various methods for cylinder reconditioning and explain any one. **07**
- (b) Explain the testing and servicing of diesel fuel injector and multipoint gasoline fuel injector. **07**
- OR**
- Q.3** (a) Explain maintenance and repair of electrical and ignition system. **07**
- (b) Explain in brief on radiator and water pump maintenance. **07**
- Q.4** (a) List the possible causes for the following complain;  
i) Gear slips during shifting, ii) Hard shifting into gear. **07**
- (b) Explain the procedure for adjustment of wheel alignment angles. **07**
- OR**
- Q.4** (a) What is hydraulic bleeding? Explain the procedure for bleeding of brakes. **07**
- (b) Explain process of rethreading of tyres. **07**
- Q.5** (a) Explain classification of tools and equipments for workshop. **07**
- (b) Explain on manufacturer's service coupon book. **07**
- OR**
- Q.5** (a) Draw workshop layout and discuss the functions and operation of service station. **07**
- (b) Discuss the activities of workshop management. **07**

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