

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-VII(NEW) • EXAMINATION – WINTER 2016

Subject Code:2170206**Date:21/11/2016****Subject Name:Vehicle Maintenance & Garage Practice(Department Elective - I)****Time:10.30 AM to 1.00 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) Describe the types of vehicle maintenance practices and explain any one with its merits and demerits. **07**
 (b) Write a short note on carburetor tuning process. **07**
- Q.2** (a) Differentiate the testing and service procedure for diesel fuel injector and petrol fuel injector. **07**
 (b) Describe the function of instruments which are listed as below: **07**
 (I) Dynamometer (II) Dial Indicator (III) Thickness gauge (IV) Stroboscope
 (V) Small hole gauge (VI) AC recovery unit (VII) Engine Analyzer.
- OR**
- (b) Explain the procedure for Tyre rotation and wheel balancing. **07**
- Q.3** (a) Describe the maintenance process of propeller shaft. **07**
 (b) What is road test? Explain the procedure for road testing of passenger car. **07**
- OR**
- Q.3** (a) Explain air brake system with neat schematic diagram. **07**
 (b) Explain Cylinder honing and Cylinder boring process. **07**
- Q.4** (a) Discuss the reasons and possible solutions of engine over heating problem. **07**
 (b) List out man power required for well established authorized car service station and also describe its duties. **07**
- OR**
- Q.4** (a) Explain the methods for measurement of fuel consumption. Enlist the possible causes for excessive fuel consumption. **07**
 (b) Explain the procedure of overhauling & diagnosis of clutch assembly. **07**
- Q.5** (a) What is hydraulic bleeding? Explain the procedure for bleeding of brakes. **07**
 (b) Explain the procedure of adjustment of valve timing. **07**
- OR**
- Q.5** (a) What do you mean by job card? Prepare a job card and inspection card for two wheeler. **07**
 (b) Explain the need and methods of chassis greasing. **07**
