

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-V (OLD) - EXAMINATION – SUMMER 2017****Subject Code: 150204****Date: 15/05/2017****Subject Name: Automobile Maintenance and Repair Practice (Institute Elective - II)****Time: 02:30 PM to 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 main function and major operations done in Service station. **07**  
(b) You are appointed as a service station supervisor. Explain how you are handling consumer cases in case of any dispute. **07**
- Q.2** (a) Why balancing of wheel is required? Explain the procedure for wheel balancing. **07**  
(b) Explain cylinder honing and boring processes. **07**
- OR**
- (b) Explain the use of following measuring instruments in automobile engine. **07**  
1. Dial indicator  
2. Thickness gauge  
3. Stroboscope  
4. Micrometer  
5. Small hall gauge  
6. Exhaust gas analyzer  
7. Dynamometer
- Q.3** (a) Explain inspection, service and repair of engine piston and connecting rod. **07**  
(b) Differentiate the testing and service procedure for diesel fuel injector and Petrol fuel injector. **07**
- OR**
- Q.3** (a) What is chassis lubrication chart? Explain the details mentioned in the chart. **07**  
(b) Explain service procedure for wheel and tyre of auto vehicle. **07**
- Q.4** (a) Explain 4-wheel alignment procedure. **07**  
(b) Prepare a job card and inspection card for two wheeler. **07**
- OR**
- Q.4** (a) Explain measurement of automotive vibration. **07**  
(b) Repair and maintenance of Propeller shaft “U” joints. **07**
- Q.5** (a) Explain caused for engine overheating. **07**  
(b) Explain maintenance and repair of electrical and ignition system. **07**
- OR**
- Q.5** (a) Explain water pump and radiator maintenance. **07**  
(b) What are functions of suspension system in automobile? Explain the lubrication and maintenance procedure for suspension system. **07**

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