Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII (NEW) - EXAMINATION - SUMMER 2017 Subject Code: 2170206 Date: 02/05/2017 **Subject Name: Vehicle Maintenance & Garage Practice** 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. 0.1 (a) Differentiate between preventive and predictive maintenance? 07 What is the necessity of preventive maintenance schedule chart? Explain the **07 (b)** necessary service operation for engine ignition system of four wheeler as per schedule chart. Explain function and operation of tyre changer, four post hoist, and electronic air 0.2 **07** inflator with suitable sketches. **(b)** Explain in detail procedure for measurement of fuel consumption? **07** OR Discuss Repair & maintenance of Propeller shaft "U" joints and Centre bearing? **(b)** 07 (a) Describe maintenance and overhauling of cylinder and valves? Q.3 07 Discuss in detail Diagnosis for poor pick up complaint? 07 **(b)** Explain function, working and construction of vernier caliper, micrometer and 0.3 07 dial bore gauge with suitable diagrams. Explain basic steps of servicing. **07 (b) Q.4** (a) Enlist the possible causes and remedies for the following: 07 i) Hard shifting into gear ii) Gear slips during shifting iii) Low engine oil pressure Explain different types of lifting equipment used in service station. **07 (b)** OR Draw the layout of a modern automobile service station and describe various 0.4 **07** activities carried in the same. Explain bleeding of hydraulic brakes in detail. **07 (b)** Q.5 Explain overhauling process of gear box. 07 (a) What are the information available to service engineer from Workshop Manual, **07** Parts Catalogue and Parts price list? OR

What is road test? Explain the procedure for road testing of a passenger car.

Give detail Maintenance & repair of electrical and ignition system?

0.5

(a)

(b)

07

07