

# GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII(NEW) EXAMINATION – SUMMER 2019

**Subject Code:2170206**

**Date:14/05/2019**

**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.

- Q.1** (a) Explain breakdown maintenance & its demerits. **03**  
 (b) Explain the function of dial gauge, filler Gauge, vernier caliper and micrometer **04**  
 (c) Draw the layout of a modern automobile service station and describe various activities carried in the same. **07**
- Q.2** (a) Differentiate garage and service station. **03**  
 (b) List out different types of tachometer. Explain centrifugal tachometer **04**  
 (c) Explain function, working and construction of vernier caliper, micrometer and dial bore gauge with suitable diagrams **07**
- Or**
- (c) List out the method of fuel consumption measurement; Explain any one method for measurement of fuel consumption? **07**
- Q.3** (a) Explain cylinder compression tester. **03**  
 (b) Explain hydraulic car lift and hydraulic floor jacks used in automotive service station. **04**  
 (c) Differentiate between preventive and predictive maintenance **07**
- Or**
- Q.3** (a) How do safely jump-start battery? **03**  
 (b) Enlist the possible causes and remedies for the following: **04**  
     1. Clutch noisy while engaged 2. Clutch chatters or grabs while engaging.  
 (c) What do you mean by job card? Prepare a job card and inspection card for four wheeler **07**
- Q.4** (a) Explain cylinder boring process. **03**  
 (b) Explain maintenance of engine valve system. **04**  
 (c) Give detail maintenance & repair of electrical and ignition system? **07**
- Or**
- Q.4** (a) Explain cylinder honing process. **03**  
 (b) Explain bleeding of brake **04**  
 (c) Explain the procedure of overhauling & diagnosis of clutch assembly **07**
- Q.5** (a) Explain valve timing adjustment **03**  
 (b) Explain the function of lubrication system. **04**  
 (c) Explain different types of workshop document and their use. **07**
- Or**
- Q.5** (a) Explain tyre rotation. **03**  
 (b) Enlist the possible causes and remedies for the following: **04**  
     1. Hard shifting into gear. 2. Transmission sticks in gear  
 (c) Explain the step by step procedure of crankshaft servicing. **07**

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