

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE- SEMESTER-VII (NEW) EXAMINATION – WINTER 2020****Subject Code:2170206****Date:21/01/2021****Subject Name:Vehicle Maintenance & Garage Practice****Time:10:30 AM TO 12:30 PM****Total Marks: 56****Instructions:**

1. Attempt any FOUR questions out of EIGHT questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

		MARKS
<b>Q.1</b>	(a) What do you mean by the term maintenance and servicing of the vehicle	<b>03</b>
	(b) Discuss different criteria for the automotive service station.	<b>04</b>
	(c) Prepare a systematic layout of a modern automotive service station.	<b>07</b>
<b>Q.2</b>	(a) Discuss basic steps of servicing for auto vehicle.	<b>03</b>
	(b) Discuss about various types of vehicle documents and its importance.	<b>04</b>
	(c) What do you mean by vehicle breakdown? Discuss causes and disadvantages of vehicle breakdown.	<b>07</b>
<b>Q.3</b>	(a) Why is the wheel alignment required for the vehicle?	<b>03</b>
	(b) Give the major difference between preventive maintenance and breakdown maintenance.	<b>04</b>
	(c) Explain function, working and advantages of the following 1. Tyre changer 2. Four post hoist and 3. Electronic air inflator	<b>07</b>
<b>Q.4</b>	(a) Discuss very briefly about daily, weekly and monthly periodic checks required for a car.	<b>03</b>
	(b) What is cylinder honing process and why it is done?	<b>04</b>
	(c) Prepare a sample job card for a car showing all the details in it while a vehicle is sent to the garage for serving and maintenance.	<b>07</b>
<b>Q.5</b>	(a) Mention different possible causes and remedies for excessive fuel consumption in the vehicle.	<b>03</b>
	(b) Explain briefly any two measuring and gauging instruments used in automobile service garage.	<b>04</b>
	(c) Discuss entire process of bleeding of brake for hydraulic brake.	<b>07</b>
<b>Q.6</b>	(a) What do you mean by wheel balancing of the vehicle?	<b>03</b>
	(b) What do you mean by carburetor tuning process?	<b>04</b>
	(c) Mention merits and demerits of an authorized service station and a private service station for auto vehicles.	<b>07</b>
<b>Q.7</b>	(a) Discuss understeer and oversteer effects in a vehicle.	<b>03</b>
	(b) What do you mean by painting and denting process for the vehicle body?	<b>04</b>
	(c) Prepare a sequential list of staff required in a modern automotive workshop. Also discuss the function and responsibilities of each staff.	<b>07</b>

- Q.8**
- (a)** Why is tyre rotation done for the vehicles while giving it for the servicing? **03**
  - (b)** Give the probable causes and remedies for 1. Hard steering and 2. Engine poor starting **04**
  - (c)** Explain warranty policy for the vehicles and also discuss about extended warranty policy for the same. **07**

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