

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-VI (NEW) EXAMINATION – SUMMER 2024****Subject Code:3160210****Date:17-05-2024****Subject Name:Vehicle Maintenance and Garage Practice****Time:10:30 AM TO 01:00 PM****Total Marks:70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

		<b>MARKS</b>
<b>Q.1</b>	(a) Explain Preventive Maintenance with advantages	<b>03</b>
	(b) Explain two measuring and gauging instruments with diagrams	<b>04</b>
	(c) Prepare a sample job card for a car with necessary details	<b>07</b>
<b>Q.2</b>	(a) Discuss criteria and requirements of an automotive service station	<b>03</b>
	(b) What would be the possible differences between EV and Conventional vehicle service station	<b>04</b>
	(c) Draw a complete layout of a modern automotive service station	<b>07</b>
	<b>OR</b>	
	(c) Discuss about different types of vehicle document and information available in vehicles	<b>07</b>
<b>Q.3</b>	(a) Prepare a periodic maintenance schedule for suspension system	<b>03</b>
	(b) Discuss possible causes and remedies for excessive fuel consumption in fuel	<b>04</b>
	(c) Explain step by step procedure of crank shaft servicing	<b>07</b>
	<b>OR</b>	
<b>Q.3</b>	(a) Explain Camber angle, Caster angle and Toe in	<b>03</b>
	(b) Describe maintenance and overhauling of cylinder head	<b>04</b>
	(c) Explain maintenance and overhauling process of propeller shaft	<b>07</b>
<b>Q.4</b>	(a) Explain valve timing adjustment	<b>03</b>
	(b) Explain cylinder honing process and why it is required?	<b>04</b>
	(c) Explain the procedure of overhauling and diagnosis of clutch assembly.	<b>07</b>
	<b>OR</b>	
<b>Q.4</b>	(a) How one can improve the Tyre life in four wheeler?	<b>03</b>
	(b) Explain function of lubrication system	<b>04</b>
	(c) Explain Brake bleeding procedure	<b>07</b>
<b>Q.5</b>	(a) Explain Tyre rotation	<b>03</b>
	(b) Enlist the possible causes and remedies for hard shifting of gear and Transmission stick in gear	<b>04</b>
	(c) Explain wheel balancing and wheel alignment	<b>07</b>
	<b>OR</b>	
<b>Q.5</b>	(a) Explain painting process of vehicles	<b>03</b>
	(b) Draw the trouble shooting chart for any four wheeler	<b>04</b>
	(c) Explain Lubrication and Maintenance of suspension system	<b>07</b>

\*\*\*\*\*