

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VI (NEW) EXAMINATION – SUMMER 2023****Subject Code:3160210****Date:06-07-2023****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.

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