

GUJARAT TECHNOLOGICAL UNIVERSITY

BE- SEMESTER- VI EXAMINATION – SUMMER 2026

Subject Code:3160210

Date:22-05-2026

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) What are the safety precautions taken by worker during servicing of vehicle.	03
	(b) Explain in brief daily and weekly maintenance schedule.	04
	(c) What is vehicle breakdown? Write down different types of breakdown. Discuss causes and disadvantages of vehicle breakdown.	07
Q.2	(a) Explain the servicing procedure of cylinder block.	03
	(b) Explain vehicle history sheet & warranty card of vehicle.	04
	(c) Write down Causes and remedies of below generated problems in Engine. 1. Engine fails to start 2. Engine knocks 3. Engine lacks power 4. Engine overheats	07
	OR	
	(c) What are the requirements of Lubrication for vehicle. Write a short note on maintenance of suspension system.	07
Q.3	(a) Explain Following term : i) Camber Angle ii) Caster Angle iii) Toe In	03
	(b) Give causes and remedies for Engine Clutch plate run out and excessive vibration in gearbox.	04
	(c) Prepare a Layout of modern service station. Enlist the criteria for the selection of location of service station.	07
	OR	
Q.3	(a) Write down the procedure to remove minor scratches on car body.	03
	(b) Discuss the role of service advisor for automobile workshop.	04
	(c) Explain Wheel balancing and different tyre rotation patterns for a car with suitable sketches.	07
Q.4	(a) Explain any Two types of Accelerometer.	03
	(b) Explain Body repair tools & equipment of vehicle.	04
	(c) List down Wear measuring Instrument and Speed measuring Instrument and explain any one of them for both.	07
	OR	
Q.4	(a) Explain cylinder boring process.	03
	(b) List down different servicing tools and equipments used in automobile garage.	04
	(c) Explain the methods for measurement of fuel consumption. Enlist the possible causes for excessive fuel consumption.	07
Q.5	(a) Explain any one type of lifting equipment used in service station.	03
	(b) Discuss the brake bleeding procedure in detail.	04

	(c) Give detail Maintenance & repair of electrical and ignition system.	07
	OR	
Q.5	(a) Explain wiper motor in detail.	03
	(b) Explain the need and methods of chassis greasing.	04
	(c) Discuss the overhauling of gear box in detail.	07
