GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI EXAMINATION – SUMMER 2025

Subject Name: Vehicle Maintenance and Garage Practice

Time: 10:30 AM TO 01:00 PM	lotal	W	[arks): /	U
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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) (b)	Discuss very briefly about daily and weekly periodic checks required for a car What is maintenance? List down different type of maintenance.	03 04
	(c)	What is vehicle breakdown? Discuss causes and disadvantages of vehicle breakdown	07
Q.2	(a) (b)	List out different type of measuring instruments used in automobile workshop. What would be the possible differences between EV and Conventional vehicle service station?	03 04
	(c)	Discuss advantages and disadvantages of an authorized service station and a private service station.	07
		OR	
	(c)	What is Job Card? What is the importance of it? Prepared job card for servicing of Hybrid car.	07
Q.3	(a)	Explain Camber angle, Caster angle and Toe in	03
	(b)	What do you mean by steering geometry? Discuss any two terms in detail.	04
	(c)	Discuss the overhauling of gear box in detail	07
		OR	
Q.3	(a)	What is valve tapping?	03
	(b)	Discuss the brake bleeding procedure in detail	04
	(c)	Explain the procedure of overhauling & diagnosis of clutch assembly	07
Q.4	(a)	What do you mean by carburetor tuning process?	03
~··	(b)	What do you mean by balancing? Give their types.	04
	(c)	Which are the different tests carried out for testing brakes?	07
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Q.4	(a)	Discuss the overhauling of differential in detail	03
V	(b)	Discuss the role of service advisor for automobile workshop	04
	(c)	Discuss various stages of painting process for passenger car.	07
Q.5	(a)	Explain Tyre rotation	03
C	(b)	Enlist the possible causes and remedies for hard shifting of gear and Transmission stick in gear	04
	(c)	Give detail maintenance & repair of electrical and ignition system.	07
	(0)	OR	U/
Q.5	(a)	Explain cylinder Honing process.	03
~	(b)	What do you mean by clutch juddering? Discuss its possible causes and remedies.	04
	(c)	Which are the different causes for engine does not start?	07