

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI (NEW) EXAMINATION – WINTER 2023

Subject Code:3160210

Date:05-12-2023

Subject Name: Vehicle Maintenance and Garage Practice

Time:02:30 PM TO 05:00 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.

- Q.1** (a) What is Maintenance? Differentiate: Preventive & Breakdown maintenance. **03**
(b) Discuss causes and disadvantages of vehicle breakdown. **04**
(c) Explain the layout of a modern automobile service station with its activities. **07**
- Q.2** (a) List the measuring instruments and Explain any one with a neat diagram. **03**
(b) Draw the Job card for Four Wheeler used in Modern Workshop. **04**
(c) Explain Wheel balancing and different tyre rotation patterns for Car. **07**
- OR**
- (c) Explain in brief daily, weekly and monthly maintenance schedules. **07**
- Q.3** (a) Explain hydraulic car lift used in automotive service stations. **03**
(b) Explain the bleeding of the hydraulic brake process with a neat sketch. **04**
(c) Discuss different possible causes and remedies for excessive fuel consumption in the vehicle. **07**
- OR**
- Q.3** (a) Enlist the possible causes and remedies for the clutch assembly maintenance. **03**
(b) What do you mean by steering geometry? Discuss any two terms in detail. **04**
(c) List different service equipment used in service stations. Explain to anyone. **07**
- Q.4** (a) What do you mean by chassis lubrication? Discuss its importance. **03**
(b) Explain the servicing procedure of the cylinder block. **04**
(c) Explain Lubrication and maintenance of suspension systems. **07**
- OR**
- Q.4** (a) Explain the process of denting for a vehicle. **03**
(b) Explain overhauling process of a differential in brief **04**
(c) Prepare a periodic maintenance schedule of the Cooling System. **07**
- Q.5** (a) Explain carburetor tuning process in brief. **03**
(b) Explain the painting process of vehicles. **04**
(c) Which are the different causes for the engine not starting? **07**
- OR**
- Q.5** (a) Explain maintenance process of propeller shaft. **03**
(b) Explain benefits of auto extended warranty for a vehicle **04**
(c) Explain different types of workshop documents and their use. **07**
