

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.VOC - SEMESTER- I EXAMINATION – WINTER 2019

Subject Code: 1110101

Date: 02/01/2020

Subject Name: Motor Vehicle Technology -II

Time: 10:30 AM TO 12:30 PM

Total Marks: 50

Instructions:

- 1. Attempt all questions.**
- 2. Make suitable assumptions wherever necessary.**
- 3. Figures to the right indicate full marks.**

- Q.1 (a)** Give detail classification of automobiles. **05**
- (b)** List out the various types of drives used in automobiles. Explain with sketch the rear wheel drive. **05**

- Q.2 (a)** Enlist the various functions of steering system used in automobiles. Explain the principle of steering system operation with neat sketch. **05**
- (b)** What is power steering? State the difference between conventional steering system and power steering system. **05**

OR

- (b)** Describe Toe-in, camber and steering angle inclination. **05**
- Q.3 (a)** Enlist and explain the different components of suspension system. **05**
- (b)** What is shock absorber? Explain telescopic type shock absorber in detail. **05**

OR

- Q.3 (a)** What is independent suspension? Explain Mac Pherson Strut type suspension system. **05**
- (b)** Write a short note on tapered leaf spring. **05**
- Q.4 (a)** Explain brake efficiency and stopping distance in detail. **05**
- (b)** What are the essential characteristics of braking fluid? Describe in detail. **05**

OR

- Q.4 (a)** Compare disc brake and drum brake. **05**
- (b)** Describe the different defects occurred in braking system of automobile. **05**
- Q.5 (a)** Discuss in detail the different pollutants from I.C. engine. **05**
- (b)** Describe the evaporative emission control system in detail. **05**

OR

- Q.5 (a)** Write a short note on catalytic converters. **05**
- (b)** What is air injection system? Explain in detail. **05**
