

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VI(NEW) EXAMINATION – WINTER 2022****Subject Code:3160210****Date:14-12-2022****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 the purpose of maintenance? **03**
(b) What safety precautions are taken care during doing vehicle maintenance? **04**
(c) Explain in brief daily, weekly and monthly maintenance schedule. **07**

- Q.2** (a) List of different measuring instruments for wear. Explain any one of them **03**
(b) Explain gravitational method (weight method) for fuel measurement. **04**
(c) Prepare a Layout of modern service station. Enlist the criteria for the selection of location of service station. **07**

OR

- (c) What is Job Card? What is the importance of it? Prepared job card for servicing of Hero Passion. **07**

- Q.3** (a) Give comparison between different types of service stations. **03**
(b) Explain service procedure of cylinders in detail. **04**
(c) Explain the workflow in service station also give the responsibility of each department. **07**

OR

- Q.3** (a) What is valve tapping? **03**
(b) Explain the servicing procedure of cylinder block. **04**
(c) Explain various tests carried out on diesel injector in detail. **07**

- Q.4** (a) Explain procedure for dismantling of an engine? **03**
(b) What do you mean by steering geometry? Discuss any two terms in detail. **04**
(c) Which are the different tests carried out for testing brakes? **07**

OR

- Q.4** (a) Explain procedure for Decarbonising of engine. **03**
(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) Which are the different tests carried out for measuring brake efficiency of any vehicle? **03**
(b) What do you mean by clutch juddering? Discuss its possible causes and remedies. **04**
(c) Discuss the brake bleeding procedure in detail. **07**

OR

- Q.5** (a) Discuss the possible causes for clutch slipping. **03**
(b) Draw the trouble shooting chart for any four wheelers. **04**
(c) What are the special tools and basic instruments required for maintenance? **07**
