

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VII (NEW) EXAMINATION – WINTER 2018****Subject Code: 2170206****Date: 19/11/2018****Subject Name: Vehicle Maintenance & 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.

		MARKS
Q.1	(a) Explain following terms :	03
	i) Boring ii) Honing iii) Tyre inflation	
	(b) Explain starting system with neat sketch.	04
	(c) If your vehicle has troubles of hard steering and excessive tyre wear , as an automobile engineer, which probable causes and remedies you would suggest ?	07
Q.2	(a) Explain Following term :	03
	i) Camber Angle ii) Caster Angle iii) Toe In	
	(b) What is meant by maintenance? Explain different types of maintenance.	04
	(c) Explain different basic steps of servicing.	07
	OR	
	(c) Which are the checking to be done during daily, weekly and monthly maintenance of a vehicle ? Discuss in brief.	07
Q.3	(a) Prepare a periodic maintenance schedule for final drive.	03
	(b) Draw schematic layout of a modern automobile service station.	04
	(c) Explain Wear measuring Instrument and Speed measuring Instrument.	07
	OR	
Q.3	(a) Prepare a periodic maintenance schedule for suspension system in automobile.	03
	(b) Differentiate between garage and service station with suitable examples.	04
	(c) List down different servicing tools and equipments used in automobile garage. Explain any two in detail with suitable sketches.	07
Q.4	(a) Prepare a periodic maintenance schedule of the Cooling System.	03
	(b) Explain bleeding of brake system with neat sketch.	04
	(c) If the vehicle steering is vibrating when vehicle at high speed and breaking condition then what may be the reasons and how you solve it ?	07
	OR	
Q.4	(a) Prepare a periodic maintenance schedule of the Lubrication System.	03
	(b) Explain the procedure for Tyre rotation with neat sketch.	04
	(c) The complaint by customer is that, car not working properly while customer switch over his vehicle in Bi-fuel mode, Write down your diagnosis.	07
Q.5	(a) Explain painting process of vehicle.	03
	(b) Give causes and remedies for Engine Clutch plate run out and excessive vibration in gearbox.	04
	(c) Draw a flow chart representing general flow of work in service station. Explain the duties of service advisor, supervisor, and technician.	07

OR

Q.5

- (a) Explain chassis lubrication. 03
- (b) Prepare a periodic maintenance schedule for fuel supply system. 04
- (c) What is job card? Prepare sample job card for Car having regular service and problem of engine overheating. 07

www.FirstRanker.com