GUJARAT TECHNOLOGICAL UNIVERSITY

BE- SEMESTER-VI (NEW) EXAMINATION – WINTER 2024

Subject Code:3160210 Date:25-			 11-202	
Subj	ect N :02:	Jame:Vehicle Maintenance and Garage Practice 30 PM TO 05:00 PM Total Mar	ks:70	
insti u	1. A 2. M 3. I	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. Simple and non-programmable scientific calculators are allowed.		
Q.1	(a) (b) (c)	Which kind of maintenance is more important? why? What are the differences in Garage & Service Station. If your vehicle has troubles of hard steering and excessive tyre wear, what could be the causes and remedies of the problem.	03 04 07	
Q.2	(a) (b) (c)	Discuss criteria and requirements of a doorstep service station What would be the possible differences between EV and Conventional vehicle service station Draw a complete layout of a modern automotive service station for Hybrid vehicles	03 04 07	
	(c)	OR Which are the checkings to be done during daily, weekly and monthly maintenance of a vehicle? Discuss in brief.	07	
Q.3	(a) (b) (c)	What is back lash in gears? How it can be measured and how it can be adjusted? Discuss possible causes and remedies of fuel pump failure. List down different servicing tools and equipment used in automobile garage. Explain any two in detail with suitable sketches.	03 04 07	
Q.3	(a) (b) (c)	OR Prepare a periodic maintenance schedule for final drive. Describe maintenance and overhauling of cylinder head Explain step by step procedure of crank shaft servicing.	03 04 07	
Q.4	(a) (b) (c)	Explain understeer and oversteer effects in a vehicle. Discuss the overhauling of differential in detail. Explain the procedure of overhauling and diagnosis of clutch assembly. OR	03 04 07	
Q.4	(a) (b) (c)	Explain Tyre rotation Explain the process of denting for a vehicle. Explain causes for Engine overheating.	03 04 07	
Q.5	(a) (b) (c)	How one can improve the Tyre life in four-wheeler? What do you mean by clutch juddering? Discuss its possible causes and remedies What is job card? Prepare sample job card for Car having regular service and problem of engine overheating	03 04 07	
Q.5	(a) (b)	OR What are the different causes of corrosion on painted body? Discuss about different types of vehicle documents and information available in them.	03 04	
	(c)	Explain Lubrication and Maintenance of suspension system ******	07	