Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-VI • EXAMINATION – SUMMER 2013

BE - SEMESTER-VI • EXAMINATION – SUMMER 2013			
Subj	ect Co	ode: 160204 Date: 03-06-2013	3
Subject Name: Vehicle Maintenance and Garage Practice			
Time: 10.30 am - 01.00 pm Total Marks: 70 Instructions:			
 Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. 			
Q.1	(a)	What is the role of predictive, preventive and breakdown maintenance?	07
	(b)	Explain each in detail. Discuss different checking to be worked out during daily, weekly and monthly maintenance.	07
Q.2	(a)	Explain following steering geometry with suitable sketches. Toe in, toe out, camber, caster, king pin inclination.	07
	(b)	What is meant by overhauling of an automobile vehicle? Explain different steps of overhauling process.	07
	(b)	OR Explain function and operation of tyre changer, four post hoist, and electronic air inflator with suitable sketches.	07
Q.3	(a)	Give detailed classification of servicing tools and equipments used in automobile garage.	07
	(b)	Explain function, working and construction of vernier caliper, micrometer and dial bore gauge with suitable diagrams. OR	07
Q.3	(a)	Explain overhauling process of cylinder head.	07
2.0	(b)	Explain overhauling process of master cylinder.	07
Q.4	(a)	Discuss probable causes and remedies of engine misfiring, and clutch slipping.	07
	(b)	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.4	(a)		07
		various activities carried in the same.	
Q.4	(b)	What do you mean by automobile workshop documentation and its records? Prepare a job card of a vehicle to be serviced.	07
Q.5	(a)	With neat schematic diagram explain working of an air brake system showing all its components.	07
	(b)	Explain operation and maintenance of a differential with neat sketch. OR	07
Q.5	(a)	Discuss trouble shooting and diagnosis of noisy gear box operation and poor brakes.	07
	(b)	Explain warranty policy in the different cases and billing procedure of a	07

(b) Explain warranty policy in the different cases and billing procedure of a 07 vehicle in detail.