GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI • EXAMINATION - WINTER 2013

Su	bject	Code: 160204 Date: 06-12-2013	
Su	bject	Name: Vehicle Maintenance and Garage Practice	
Tiı	ne: 0	2:30 pm to 05:00 pm Total Marks: 70	
Inst	tructio		
	2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	What is the necessity of preventive maintenance schedule chart? Explain the necessary service operation for engine ignition system of four wheeler as per schedule chart.	07
	(b)	Enlist instruments required for measurement of wear. Explain procedure for measurement of cylinder wear.	07
Q.2	(a)	Explain different methods for measurement of fuel consumption by an automobile engine.	07
	(b)	Explain inspection, service and repair of engine cylinder head and engine valves. OR	07
	(b)	Explain chassis lubrication.	07
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Q.3	(a)	Explain the procedure for testing and calibration of diesel fuel injector and diesel fuel pump.	07
	(b)	Explain procedure for automobile brake adjustment and hydraulic brake bleeding.	07
		OR	
Q.3	(a)	Enlist the possible causes and remedies for the following: i) Hard shifting into gear ii) Gear slips during shifting iii) Low engine oil pressure	07
	(b)	Explain the maintenance and repair of differential unit and final drive.	07
Q.4	(a) (b)	Explain the procedure for vehicle tyre rotation and wheel balancing. What is wheel alignment? Enlist wheel alignment angles and explain the adjustment methods for alignment angles. OR	07 07
Q.4	(a) (b)	Explain tyre retreading process. Explain different types of lifting equipment used in service station.	07 07
Q.5	(a)	Draw a layout of standard service station and explain point which can be taken into consideration for layout of service station.	07
	(b)	Enlist the different record/documents to be maintained by service station. Explain the necessity of each record. OR	07
Q.5	(a)	Draw a flow chart representing general flow of work in service station. Explain the duties of service advisor, supervisor, and technician/auto mechanics.	07
	(b)	What is road test? Explain the procedure for road testing of a passenger car.	07
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