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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII(NEW) EXAMINATION - SUMMER 2019

Subject Code:2170204 Date:27/05/2019			
Time:02:30 PM TO 05:00 PM Total Marks: 70			70
Instru			
		Attempt all questions.	
		Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks.	
Q.1	(a)	What do you mean by individual component approval and whole vehicle	03
	()	component approval?	
	(b)	<u> </u>	04
	(c)	Explain working of eddy current dynamometer.	07
	(C)	Explain working of eddy current dynamonicier.	U1
Q.2	(a)	State various noise sources from vehicle and explain wind noise.	03
~ ·-	(b)	•	04
	(c)	Explain working of infrared gas analyzer.	07
	(0)		0.
		OR	0=
	(c)	Explain working of ORSAT apparatus with neat sketch.	07
Q.3	(a)	What is active safety and passive safety and list active and passive safety	03
	()	devices used in automobile?	
	(b)	List types of mounting for engine. Explain hydro elastic mounting	04
	(c)	Explain four wheel dynamometer.	07
		OR	
Q.3	(a)	What do you mean by EURO standards and AIS standards?	03
	(b)		04
	(c)	Explain working principle of wind tunnel testing.	07
		2.0	0.0
Q.4	(a)	/ A*	03
	(b)		04
	(c)	Explain testing procedure for gradeablitiy test of vehicle OR	07
0.4	(a)		03
Q.4	(a) (b)		03
	(c)	Explain energy consumption in conventional automobiles.	07
	(0)	Explain energy consumption in conventional automobiles.	07
Q.5	(a)	Discuss fire resistance test for vehicle.	03
•	(b)		04

(c) Explain three chamber corrosion testing procedure.

Q.5 (a) Write short note on engine durability test.

(c) Explain procedure for wheel rim testing.

(b) Explain side door intrusion test.

07

03

04

07