



**Q.8** 

material.

**(b)** Explain dash board with figure in detail.

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GUJARAT TECHNOLOGICAL UNIVERSITY  PE SEMESTED VI (NEW) EXAMINATION WINTER 2020				
Subia	ect C	BE- SEMESTER-VI (NEW) EXAMINATION – WINTER 2020 ode:2160205 Date:29/0	Date:29/01/2021	
U		ame:Automobile Chassis and Body Engineering	)1/2021	
Time:02:00 PM TO 04:00 PM Instructions:			otal Marks: 56	
	2. N	Attempt any FOUR questions out of EIGHT questions.  Make suitable assumptions wherever necessary.  Figures to the right indicate full marks.		
Q.1	(a)	Write the properties and use of FRP.	03	
	<b>(b)</b>	Draw the diagram for coach work.	04	
	(c)	Write brief notes on "Chassis frame design".	07	
Q.2	(a)	Classify types of bus body.	03	
•	<b>(b)</b>	* **	04	
	(c)	Explain car body zones & body trims.	07	
Q.3	(a)	Give the requirements of pedestrian safety.	03	
	<b>(b)</b>	Explain working of airbags used for safety.	04	
	(c)	Describe human ergonomics for driver's seat design.	07	
Q.4	(a)		03	
	<b>(b)</b>	• •	04	
	(c)	What is the visibility of driver and explain methods to improve it?	07	
Q.5	(a)	Explain aerodynamics resistance and articulated vehicle.	03	
	<b>(b)</b>	Explain roll over test to be performed for auto vehicles.	04	
	(c)	Explain water leakage test.	07	
Q.6	(a)	Define ergonomics of vehicle	03	
	<b>(b)</b>		04	
	(c)	Explain Full frontal crash test with neat sketch	07	
Q.7	(a)	What is the concept of H-point referencing?	03	
	<b>(b)</b>	Explain 1.Passenger compartment lightning and 2. Car radio.	04	
	(c)	Differentiate between passive and active safety.	07	

1

03

04

**07** 

(a) Explain active and passive safety. And what is GRP in vehicle body

(c) Explain Pneumatic equipment for passenger door opening & closing.

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