GUJARAT TECHNOLOGICAL UNIVERSITY

GUJAKAI IECHNOLOGICAL UNIVEKSIIY DE SEMESTED VI (NEW) EVAMINATION SUMMED 2016			
BE - SEMESTER-VI (NEW) - EXAMINATION – SUMMER 2016 Subject Code:2160205 Date:13/05			16
Subject Name: Automobile Chassis and Body Engineering			
Time: 10:30 AM to 01:00 PM Total Mark			70
Instructions:			-
 Attempt all questions. Make suitable assumptions wherever necessary. 			
	3	3. Figures to the right indicate full marks.	
Q.1	(a) (b)	Enlist the types of chassis frame & explain it's design consideration. Explain function, construction & working of Air bag with neat sketch.	07 07
Q.2	(a) (b)	Write short note on SSS method of vehicle structure analysis. Explain car body zones & body trims.	07 07
	(b)	OR Explain the effects of different types of forces & moments acting on vehicle body.	07
Q.3	(a) (b)	Classify & explain different types of bus bodies. Write short note about vehicle safety. OR	07 07
Q.3	(a) (b)	Compare the conventional & integral type construction of bus body. Classify & explain types of commercial vehicle body.	07 07
Q.4	(a) (b)	Explain floor height & engine location for bus body. Explain driver visibility & methods for improving visibility. OR	07 07
Q.4	(a) (b)	Explain driver seat design & dimension parameters. Which materials are used in car body construction? State their characteristics.	07 07
Q.5	(a) (b)	Explain an importance of ergonomics in vehicle. Why crash test is required? Explain it's procedure. OR	07 07
Q.5	(a) (b)	Write short note on dashboard instruments. As your point of view which improvements will you like to make in vehicle body design.	07 07
