Enrollment No:):	
	C.U.SHA	AH UNIVERS	SITY	
	Summer	r Examination-2	2016	
Subject N	Name : Automobile Chasis a	and Body Engineering		
Subject (Code: 4TE06ACB1	Branch : B.Tech (Auto)		
Instruction (1) U (2) In (3) D		nswer book are strictly to be es (if necessary) at right place	e obeyed.	
	Attempt the following que			(14)
1)	Split level is a type of(a) Commercial vehicle book (c) Car body	dy (b) Bus body (d) Truck body		
2)	ABS (Anti-lock braking system) (a) Active safety (c) Both (a) and (b)	stem) falls under the categor (b) Passive safety (d) None of the a	,	
3)	Rolling moment is generate (a) Down force (b) Cross		(d) None of the above	
4)		ltant of pressure distribution force (c) Lift force (d)		
5)	Glove box is a unit of, (a) Hood (b) Dash	board (c) Bonnet (d) N	None of the above	
6)	The lack of "B" pillars four (a) Sedan type body shape (c) Hard top type	nd in, (b) Hatch back ty (d) Limousine ty	•	

Q-1

7)

(a) Toughened glass

The example of a saloon is

(c) Plain glass



(a) Maruti A star (b) Fiat Linea (c) Toyota innova (d) Tata safari

The glass which consists of two layer of glass bonded together is called,

(b) Laminated glass

(d) None of the above



	9)	Moment tends to turn the vehicle away from the direction of motion. (a) Pitching (b) Rolling (c) Yawing (d) None of Above		
	10)	Energy absorbing parts of the car is made of (a) Less stiffed than central part (b) High stiffed than central part		
		(c) Both (a) and (b) (d) None of the above		
	11)	* *		
		(a) Cowl (b) Boot (c) Doors (d) Wind screen		
	12)	What should be the angle between seat and back rest? (a) Acute angle (b) Obtuse angle (c) Reflect angle (d) None of above		
	13)	Weight of the vehicle produces in the side members of the frame.		
	·	(a) Vertical bending (b) Horizontal bending		
		(c) Torsion (d) None of above		
	14)	Structural safety of the body work falls under the category of,		
	1 ,	(a) Active safety (b) Passive safety		
		(c) Both (a) and (b) (d) None of the above		
	npt any f	our questions from Q-2 to Q-8	(14)	
Q-2	(-)			
	(a) (b)	Draw and explain typical car body construction. Discuss various types of drag force and its contribution towards the overall drag force.	(07) (07)	
Q-3		Attempt all questions	(14	
	(a) Explain various moments arise on vehicle due to aerodynamic forces.		(07	
	(b)	Define blind spot. Describe various methods to reduce blind spot in sedan car.	(07	
Q-4		Attempt all questions	(14	
ν.	(a)	What is vehicle safety? Discuss in brief passive safety.	(07)	
	(b)	Give details about types of metal section used in bus body.	(07	
0.5		Attempt all questions	(14	
Q-5	(a)	Attempt all questions Explain the influence of engine, entrance and exit location in bus body design	(07)	
	(a)	with relevant sketches.	(07)	
	(b)	Compare integral and conventional body construction.	(07	
Q-6		Attempt all questions	(14	
Ψ 0	(a)	Discuss the compactness of driver's cab and segmental design of cab.	(07	
	(b)	Explain with sketch the tipper body design.	(07	



Q- 7		Attempt all questions	(14)
	(a)	Explain symmetric & asymmetric vertical loads in case of car loading.	(07)
	(b)	Describe the selection of paint and painting process of vehicle.	(07)
Q-8		Attempt all questions	(14)
	(a)	Explain shear panel method for determining stress analysis.	(07)
	(b)	Enlist various materials used in automobile construction. Explain any two of	(07)
		them.	