## Paper / Subject Code: 88801 / Chassis and Body Engineering

## SemII/CBCGIS/AUTO/ND-19

03/12/2019

(3 Hours)

(Total Marks: 80)

N.	B. :	(1	<b>Question</b>	No. 1	is	compu	sory
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- (2) Attempt any three questions out of remaining five questions.
  - (3) Justify your answer with neat sketches.

			Soft att.		
1.	A)	Attempt any <u>four</u> out of six.			
		a) Explain the importance of aerodynamics for the vehicle body			
		b) What are the various loads on vehicle?			
		c) Explain acceleration load case.			
		d) What are the requirements of Passenger seat?			
		e) Draw the chassis frame with location of different chassis components.	15.22.		
		f) Write the effect of hole on chassis frame.			
2.	A),	Explain methods of preliminary design of Passenger Car.	10		
	B)	Explain the properties of vehicle body materials.	10		
3.	A)	How to improve the driver's visibility and space in the car.	10		
	B)	Sketch and explain bus body layout,	10		
4.	A)	Explain longitudinal loads and Side Loads case,	10		
	B)	Classify the car body style with sketch	10		
5.	A)	Write a note on a) Torsion center b) spot welding.	10		
	B)	Explain the recent trends in body design with respect to safety consideration.	10		
	4				
6.	A)	Explain scalation of paint and painting process.	10		
7	B)	Explain latest trends in design and manufacturing of vehicle body.	10		