Paper/Subject Code: 41601/Chassis Body Engineering BE Auto/Sero VII/CB GLS/ Second Hay 2018 Q.P.Code: 40299

Time: 03 Hours

Marks: 80

20

- N. B. (1) Question No. 01 compulsory.
 - (2) Attempt any three questions out of remaining five questions
 - (3) Justify your answer with neat sketches.
 - Q. 01 Attempt any four out of six.
 - i) What are the requirements of Passenger seat?
 - ii) What are the effects of loads on vehicle body?
 - iii) Explain various forces acting on the vehicle body.

- iv) What are the various types of metal section used for vehicle body?
- v) Draw the chassis frame with location of different chassis components.
- vi) Explain Sheet Stamping process.

Q. 02	A) Explain methods of preliminary design of Passenger Car.	10
	B) How to calculate the center of gravity for the vehicle.	10
Q. 03	A) Classify the motor vehicle with neat sketches.	10
	B) Explain the recent trends in body design with respect to safety consideration.	10
Q. 04	A) Explain in brief properties of vehicle body materials.	10
	B) Explain methods improving visibility and space in cars.	10
Q. 05	A) Explain various body optimization techniques for minimum drag.	10
	B) Explain in brief commercial vehicle body details.	10
Q. 06	A) Explain various loading cases acting on vehicle.	10
	B) Explain various power plant locations on chassis frame with Advantages and disadvantages.	10

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