Year and Program: TY.B Tech Mechanical Engineering	**School of Technology**	**Department: Mechanical Engineering**
Course Code: MET309.4	**Course Title: Automobile Engineering**	**Semester : SEM - V**
Day : **Date :**	**R-End Semester Examination**	**Time : 2 Hrs.** **Max Marks : 50**

Question Paper

Instructions: 1) All Questions are compulsory.
2) Figures to the right indicate full marks.

		Marks	Bloom's Level	CO
Q.1	**Answer the following (any Two)–**			
a)	What are the functions of frame? Describe briefly Conventional frame, Semi-integral frame and integral frame	8	L1	309.4.1
b)	Compare the front engine front wheel drive and front engine rear wheel drive with its advantages and disadvantages.	8	L2	309.4.1
c)	What is a need of differential? Explain its operation with neat sketch.	8	L3	309.4.1
Q.2	**Answer the following (any two) –**			
a)	Define & explain following: Camber angle, Caster angle, King-pin inclination and Toe-in	8	L1	309.4.2
b)	Which are the different types of springs used in the suspension system? Explain anyone of them with neat sketch.	8	L2	309.4.2
c)	Draw a simplified wiring circuit for the lighting system of car and discuss the same.	8	L3	309.4.3
Q.3	**Answer the following (any two) –**			
a)	Compare Disc type and Drum type brakes on the basis of performance, Efficiency, Life and heat dissipation.	9	L2	309.4.2
b)	What are the various types of wheels used in vehicles? How to select wheel & tyre size for vehicle? Specify how tyres are specified?	9	L4	309.4.2
c)	Draw neat circuit diagram of battery ignition system. Explain function of each component and compare with magneto ignition system.	9	L3	309.4.3

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Sanjay Ghodawat University, Kolhapur

Established as State Private University under Govt. of Maharashtra. Act No XL, 2017

2020-21

EXM/P/09/00

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