Sanjay Ghodawat University, Kolhapur

2020-21

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

EXM/P/09/00

Year and Program: TY.B Tech Mechanical Engineering	**School of Technology**	**Department: Mechanical Engineering**
Course Code: MET309.4	**Course Title: AutomobileEngineering**	**Semester : SEM - V**
Day : Wednesday **Date: 23/12/2020**	**End Semester Examination**	**Time:2 Hrs.** **Max Marks:50**

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 main components of an automobile? Describe all of them briefly.	8	L1	309.4.1
b)	How will you classify the automobiles? Which are the different types of chassis? Write note on construction details of chassis.	8	L2	309.4.1
c)	Explain clearly how it is made sure in a gear box that, only one gear can be engaged at a time. Illustrate your answer by means of a neat sketch of an interlocking device.	8	L3	309.4.2
Q.2	**Answer the following (any two) –**			
a)	Discuss a steering linkage for a vehicle with dependent suspension.	8	L1	309.4.2
b)	Which are the different types of independent suspensions? Explain Mc person strut independent system with a neat sketch.	8	L2	309.4.2
c)	Explain with neat sketch construction and working of lead acid battery.	8	L3	309.4.3
Q.3	**Answer the following (any two) –**			
a)	Describe various types of brakes used in automobiles? Explain with neat sketch working of any power brake used in automobile.	9	L2	309.4.3
b)	You have to select type of wheel and tyre for luxury car. Select suitable wheel construction and type of tyre and justify your selection.	9	L4	309.4.3
c)	Draw neat circuit diagram of automobile starter motor circuit, battery charging circuit & regulator in automobile electrical system.	9	L3	309.4.3

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