

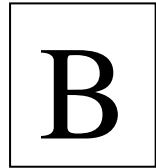


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**SNS College of Technology, Coimbatore-35.  
(Autonomous)**

**B.E/B.Tech- Internal Assessment -I  
Academic Year 2023 – 2024 (Odd)**



**Third Semester**

**Automobile Engineering**

**19AUB202 – AUTOMOTIVE SYSTEMS**

**Time: 1<sup>1/2</sup> Hours**

**Maximum Marks: 50**

**Answer All Questions**

**PART - A (5 x 2 = 10 Marks)**

		<b>CO</b>	<b>Blooms</b>
1	Distinguish between Chassis and Frames	<b>CO1</b>	<b>Ana</b>
2	Analyze the importance of vehicle body design in a vehicle	<b>CO1</b>	<b>Ana</b>
3	List out any four vehicle body accessories	<b>CO1</b>	<b>Rem</b>
4	Differentiate the reversible steering with irreversible steering	<b>CO2</b>	<b>Ana</b>
5	Identify the steering system that can be used for trucks	<b>CO2</b>	<b>Ana</b>

**PART – B (40 Marks)**

6	(a) Examine the layout of an automobile with a neat sketch	13	<b>CO1</b>	<b>Ana</b>
	(or)			
	(b) Analyze the various types of vehicle body with a neat sketch	13	<b>CO1</b>	<b>Ana</b>
7	(a) Examine the Steering linkage layouts of Independent suspension system with a neat sketch	13	<b>CO2</b>	<b>Ana</b>
	(or)			
	(b) Analyze the Rack and Pinion steering system with a neat sketch.	13	<b>CO2</b>	<b>Ana</b>
8.	(a) Inspect the features of Ladder Frame and Integral body frame in detail with a neat sketch	14	<b>CO1</b>	<b>Ana</b>
	(or)			
	(b) Analyze the importance of Ackermann principle in steering system.	14	<b>CO2</b>	<b>Ana</b>