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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 Compare the chassis with the frame	<b>CO1</b>	<b>Ana</b>
2 Analyze the importance of chassis in a vehicle	<b>CO1</b>	<b>Ana</b>
3 List out any four vehicle body type	<b>CO1</b>	<b>Rem</b>
4 Analyze the difference between reversible steering and irreversible steering	<b>CO2</b>	<b>Ana</b>
5 Identify the steering system that can be used for cars	<b>CO2</b>	<b>Ana</b>

**PART – B (40 Marks)**

6 (a) Analyze the various type of Chassis frame with a neat sketch.	13	<b>CO1</b>	<b>Ana</b>
(or)			
(b) Inspect the design features of a vehicle body	13	<b>CO1</b>	<b>Ana</b>
7 (a) Examine the Steering linkage layouts of Rigid Axle suspension system with a neat sketch	13	<b>CO2</b>	<b>Ana</b>
(or)			
(b) Analyze the Recirculating bar steering system with a neat sketch.	13	<b>CO2</b>	<b>Ana</b>
8. (a) Analyze the transformation of an automobile from the steam engine to the latest autonomous Car in detail..	14	<b>CO1</b>	<b>Ana</b>
(or)			
(b) Inspect the importance of Ackermann principle in steering system.	14	<b>CO2</b>	<b>Ana</b>