

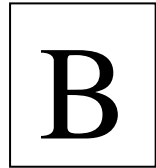


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**SNS College of Technology, Coimbatore-35.  
(Autonomous)**

**B.E/B.Tech- Internal Assessment -III  
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	Analyze the features of Independent suspension system	<b>CO4</b>	<b>Ana</b>
2	Differentiate Leaf spring with a Coil spring	<b>CO4</b>	<b>Ana</b>
3	Identify the Characteristics of a good braking system	<b>CO5</b>	<b>App</b>
4	Differentiate mechanical brake with hydraulic brake	<b>CO5</b>	<b>Ana</b>
5	Inspect the meaning of the tire code present in the sidewall of a tire	<b>CO5</b>	<b>Ana</b>

**PART – B (40 Marks)**

6	(a) Examine the construction and working of Rigid Axle Suspension System with a neat sketch	13	<b>CO4</b>	<b>Ana</b>
	(or)			
	(b) Analyze the principle and construction working of Telescopic Shock Absorber with a neat sketch	13	<b>CO4</b>	<b>Ana</b>
7	(a) Inspect the principle and working of Disc Brake with a neat sketch	13	<b>CO5</b>	<b>Ana</b>
	(or)			
	(b) Analyze the construction details of tires with a neat sketch.	13	<b>CO5</b>	<b>Ana</b>
8.	(a) Inspect the various types of springs used in an Automotive Suspension system with a neat sketch	14	<b>CO4</b>	<b>Ana</b>
	(or)			
	(b) Analyze the construction and working of Drum Brake with a neat sketch	14	<b>CO5</b>	<b>Ana</b>

Rem – Remembrance, Und – Understanding, App- Apply, Ana – Analyse, Cr- Create