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

**B.E/B.Tech- Internal Assessment -III  
Academic Year 2022 – 2023 (Even)**

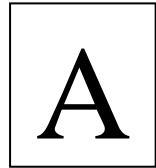
**Fourth Semester**

**Automobile Engineering**

**19AUT205 – INTERNET OF THINGS IN AUTOMOTIVE SAFETY**

**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 Analog sensor with Digital sensor	<b>CO4</b>	<b>Ana</b>
2 What is meant by ESP8266?	<b>CO4</b>	<b>U</b>
3 Is it possible to reduce the vehicle theft by using IoT?	<b>CO5</b>	<b>Ana</b>
4 Analyze the importance of IoT in reducing the accidents	<b>CO5</b>	<b>Ana</b>
5 Is it possible to apply IoT for increasing the security in Automobile?	<b>CO5</b>	<b>Ana</b>

**PART – B (13 x 2 = 26 Marks)**

6 (a) Elaborately discuss about the Serial communication with RF Modem.	13	<b>CO4</b>	<b>U</b>
<b>(or)</b>			
(b) Explain briefly about the Serial Communication with Node MCU.	13	<b>CO4</b>	<b>R</b>
7 (a) Apply the concept of IoT in Biometric Car Opening system and Elaborate it briefly with a neat sketch	13	<b>CO5</b>	<b>App</b>
<b>(or)</b>			
(b) Apply the concept of IoT in Fleet and Driver Management System and Elaborate it briefly with a neat sketch	13	<b>CO5</b>	<b>App</b>
8. (a) Interface ESP8266 with Analog sensor and explain it briefly with a neat sketch	14	<b>CO4</b>	<b>App</b>
<b>(or)</b>			
(b) Apply the IoT concept for Fleet Management in TNSTC and explain it briefly with a neat sketch.	14	<b>CO5</b>	<b>App</b>

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