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

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

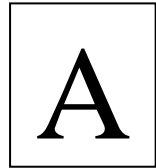
Fourth Semester

Automobile Engineering

19AUT205 – INTERNET OF THINGS IN AUTOMOTIVE SAFETY

Time: 1^{1/2} Hours

Maximum Marks: 50



Answer All Questions

PART - A (5 x 2 = 10 Marks)

		CO	Blooms
1	Is it possible to apply the IoT concepts to reduce vehicle theft?	CO1	U
2	List out various IoT network protocols.	CO1	Ana
3	Analyse the reason why IoT is needed in Automotive Safety	CO1	Ana
4	Identify the key features of Exclusive pair model with Publish-Subscribe model	CO2	Ana
5	List out the communication models used in various types of IoT communication API	CO2	R

PART – B (40 Marks)

6	(a) Elaborately discuss about the Functional Blocks of IoT with a neat sketch.	13	CO1	U
	(or)			
	(b) Explain in Detail about the various features of Industry 4.0 with a neat sketch.	13	CO1	R
7	(a) Discuss in detail about the various IoT communication models with a neat sketch	13	CO2	U
	(or)			
	(b) (i) With the aid of a neat sketch, explain about the various IoT Communication API	10	CO2	R
	(ii) Compare and contrast the REST based communication API with Web socket based communication API.	3	CO2	Ana
8.	(a) Apply the concept of IoT Technology in anyone of the Automotive Application with a neat sketch.	14	CO1	App
	(or)			
	(b) Apply the suitable IoT communication model to design an IoT system for Women's safety while driving in Night times.	14	CO2	App