Question Paper Code: R18A42CS01

R18

ANURAG Engineering College

(An Autonomous Institution)

IV B.Tech II Semester Regular/Supplementary Examinations, April - 2024

INTERNET OF THINGS

(COMPUTER SCIENCE AND ENGINEERING)

Time: 3 Hours **Max. Marks: 75**

Section – A (Short Answer type questions) (25 Marks)

Answer All Questions		Course Outcome	B.T Level	Marks
1.	Define IOT and list out any three applications of IoT.	CO1	L1	2M
2.	Develop the physical Design of IoT	CO1	L2	3M
3.	Distinguish IoT and M2M in terms of communication protocols.	CO2	L2	2M
4.	What is sensor and list any three characteristics?	CO2	L1	3M
5.	Explain about the PaaS	CO3	L2	2M
6.	Demonstrate about the smart devices.	CO3	L2	3M
7.	Outline the Legal challenges of IoT Device.	CO4	L1	2M
8.	List out the Security challenges of IoT Device.	CO4	L1	3M
9.	Identify the importance of Raspberry Pi Interfaces.	CO5	L2	2M
10.	Illustrate the Smart Parking IoT System	CO5	L2	3M

Section B (Essay Questions)

Answer all questions, each question carries equal marks. **(5 X 10M = 50M)**

11. A)	Construct the SMART CITY With IoT environment by taking any example.	CO1	L2	10M
	OR			
B)	Model the IoT architecture and list out the elements of IoT ecosystem.	CO1	L3	10M
12. A)	Classify IoT Wireless Technologies and discuss it in detail.	CO2	L2	10M
	OR			
B)	Define sensors and sensor nodes and also explain about the Arduino-Based Sensor Nodes.	CO2	L3	10M
13. A)	Explain in detail about cloud analytics.	CO3	L2	10M
	OR			
B)	Make use of Data normalization and Protocol translation in IoT.	CO3	L3	10M
14. A)	What industries can benefit from IoT, explain with business considerations.	CO4	L3	10M
	OR			
B)	Tell me clearly about Design and development challenges in IoT.	CO4	L3	10M
15. A)	Examine Controller Service of the Home Automation IoT system	CO5	L3	10M
	OR			
B)	Distinguish the different communication interfaces on the Raspberry Pi board, including I2C, SPI, and UART.	CO5	L3	10M