Question Paper Code: R22A21CS06

R22

ANURAG Engineering College

(An Autonomous Institution)

II B.Tech I Semester Regular Examinations, Jan/Feb–2024

INTRODUCTION TO IOT

(INFORMATION TECHNOLOGY)

Time: 3 Hours **Max. Marks: 60**

Section – A (Short Answer type questions) (10 Marks)

Answer All Questions		Course Outcome	B.T Level	Marks
1.	Define protocol.	CO1	L1	1M
2.	Define sensing.	CO1	L2	1M
3.	Define inter-operability.	CO2	L2	1M
4.	Arduino IDE consists of how many functions.	CO2	L1	1M
5.	Write the advantages of python language.	CO3	L1	1M
6.	Define python interpreter.	CO3	L2	1M
7.	What is the need for SDN.	CO4	L1	1M
8.	What is the necessity for data handling.	CO4	L2	1M
9.	Define Cloud Computing.	CO5	L2	1M
10.	Expand IIoT.	CO5	L1	1M

Section B (Essay Questions)

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

11. A)	Briefly explain the characteristics of IoT.	CO1	L3	10M
	OR			
B)	Write the differences between sensors and actuators.	CO1	L3	10M
12. A)	Briefly explain interoperability in IoT.	CO2	L3	10M
	OR			
B)	Describe how actuator is integrated with Arduino with a diagram.	CO2	L3	10M
13. A)	Write short notes on types of operators in python with an example.	CO3	L3	10M
	OR			
B)	Draw the interfacing diagram of 4x4 key board with Raspberry-Pi.	CO3	L2	10M
14. A)	Write short notes on software defined networking.	CO4	L3	10M
	OR			
B)	Describe the implementation of Raspberry-Pi.	CO4	L3	10M
15. A)	Describe the usage of IoT in smart homes.	CO5	L3	10M
	OR			
B)	Discuss in detail any health care system using IoT.	CO5	L3	10M