SNS COLLEGE OF ENGINEERING

Kurumbapalayam (Po), Coimbatore – 641 107

AN AUTONOMOUS INSTITUTION

Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai

INTERNAL ASSESSMENT EXAMINATION – I

IV Semester

B.E., ELECTRONICS AND COMMUNICATION ENGINEERING

19OE401– IOT SYSTEM ARCHITECTURE

Regulations 2019

(handwritten: pr> 64 / 13 Σ01 / 65)

Duration	: 1 Hours 30 Minutes		
Date	: 16.03.2022	Session : FN	Maximum: 50 Marks

Answer ALL questions

PART A - (5 X 2 = 10 marks)

Q.No	Question	M	CO	BL
1.	List out the features of IoT.	2	CO-1	L-1
2.	What is the function of Sensor?	2	CO-1	L-1
3.	Write about Arduino IDE.	2	CO-1	L-1
4.	Which Programming Language is used for Arduino?	2	CO-2	L-1
5.	Mention the types of Actuators used in Arduino.	2	CO-2	L-1

PART B - (2 X 13 = 26 marks)

			M	CO	BL
6.	(a)	Illustrate various IoT sensors and sensing technologies with an example.	13	CO-1	L-2
		OR			
	(b)	Investigate how the IoT can be utilized in Healthcare Monitoring system.	13	CO-1	L-4
7.	(a)	(i) Discuss the impact of IoT on Society.	6	CO-1	L-2
		(ii) Compare and contrast Arduino and NodeMCU	7	CO-2	L-2
		OR			
	(b)	Describe about the working of Arduino Uno Board.	13	CO-2	L-2

PART C – (1 x 14 = 14 Marks)

			M	CO	BL
8.	(a)	Analyze and infer the impact of IoT in Agriculture.	14	CO-1	L-4
		OR			
	(b)	Examine how the analog and digital sensors are interfaced with Arduino.	14	CO-2	L-3

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