Total No.	of i	Printed	Pages:	[2]	
-----------	------	---------	--------	-----	--

PRN. No.

PAPER CODE U114-374 (Banklog

DECEMBER 2024 (Backlog) EXAM Sem-I

F.Y. BTECH. (CSE-IoT CSBT)

(PATTERN 2023)

COURSE NAME: BASICS OF IOT

COURSE CODE: CI12234

Time: [2Hr]

[Max. Marks: 60]

- (*) Instructions to candidates:
- 1) Use of scientific calculator is allowed
- 2) Use suitable data where ever required
- 3) All questions are compulsory. Solve any THREE sub questions from EACH question

Que. No.	Question Description	Max. Marks	CO mapped	BT Level
Q1.	Solve any three sub questions from the following			•
QI.	A) Differentiate between IoT & Machine to Machine (M2M)	[5]	CO1	L2
	B) With the help of IOT functional block diagram explain IOT.	[5]	CO1	L2
	C) Assess the distinguishing features and properties of the Internet of Things (IoT)	[5]	CO1	L3
	D) Draw labeled pinout diagram of microprocessor and elaborate working of address and data bus	[5]	CO1	L2
Q2.	Solve any three sub questions from the following		·	
<u> </u>	A) Identify and categorize three real-world scenarios where the microcontroller is currently being utilized to enhance efficiency or improve quality of life	[5]	CO2	L3
B) Draw lab	B) Draw labeled architecture of microcontroller	[5]	CO2	L2
	C) Differentiate between Microprocessor & Microcontroller	[5]	CO2	354
	D) Analyze the evolution of microprocessor	[5]	CO2	L4
Q3.	Solve any three sub questions from the following			
<u> </u>	A) Differentiate between IPv4 & IPv6	[5]	CO3	L3
	B) Apply your understanding of the OSI Reference Model to design a network architecture that ensures efficient communication	[5]	CO3	L3
	C) Explain the process of IPv6 addressing mechanism.	[5]	CO3	L2
	D) Analyze the OSI reference model by illustrating each layer and elucidating their respective functionalities?	[5]	CO3	L4
04	Solve any three sub questions from the following			1
Q4.	A) Explain the IoT security challenges	[5]	CO4	L2
	B) Evaluate the effectiveness of various authentication methods used in Internet of Things (IoT).	[5]	CO4	L3

C) Discuss the challenges associated with managing a large number of diverse IoT devices within a network and propose strategies to mitigate associated risks. D) Explain the IoT security challenges	[5]	CO4	L4	
than to t became the second of	[5]	CO4	L2	

Note: [BT Level – 1. Remember, 2. Understand, 3. Apply, 4. Analyze, 5. Evaluate, 6. Create]