PRESIDENCY UNIVERSITY

BENGALURU

Mid - Term Examinations – October 2025

Date: 27-10-2025   **Time:** 11.00am to 12.30pm

School: SOCSE/SOE	**Program**: CIT
Course Code : CIT3407	**Course Name:** IoT Data Analytics and Machine Learning
Semester: VII	**Max Marks**:50 **Weightage**:25%

CO - Levels	CO1	CO2	CO3	CO4	CO5
Marks	26	24	-	-	-

Instructions:

    (i) Read all questions carefully and answer accordingly.

    (ii) Do not write anything on the question paper other than roll number.

Part A

Answer ALL the Questions. Each question carries 2marks.   **5Q x 2M=10M**

1	Explain any two key characteristics of IoT devices.	2 Marks	L2	CO1
2	Outline the World forum architecture for IoT.	2 Marks	L2	CO1
3	Summarize the features of Zigbee.	2 Marks	L2	CO1
4	Define data exploration in the context of IoT data	2 Marks	L1	CO2
5	List any two common visualization tools used for IoT data.	2 Marks	L1	CO2

Part B

Answer the Questions.   **Total Marks 40M**

6.	a.	Classify sensor and actuator types in IoT with examples	10 Marks	L2	CO 1
		Or			
7.	a.	Differentiate between MQTT queue and traditional message queues.	10 Marks	L2	CO 1

8.	a.	Outline the structure of World Forum architecture of Internet of things.	10 Marks	L2	CO 1
		Or			
9.	a.	Describe any four Application layer protocols in Internet of things.	10 Marks	L2	CO 1

10.	a.	Explain the steps involved in exploring IoT data.	10 Marks	L2	CO 2
		Or			
11.	a.	Illustrate the process involved in time series analysis.	10 Marks	L2	CO 2

12.	a.	Illustrate the techniques to understand and improve data quality in IoT cloud processing.	10 Marks	L3	CO 2
		Or			
13.	a.	Use suitable examples to Interpret the common techniques for exploring and visualizing IoT data.	10 Marks	L3	CO 2