Roll No: | | | | | | | | | | | |

PRESIDENCY UNIVERSITY

GAIN MORE KNOWLEDGE
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Bengaluru

Mid Term Examinations - October 2026

Date: 07/10/2026 **Time:** 09:30 AM - 11:00 AM

Course Code: CIT3402 **Course Name:** IoT Architecture and Protocols

Semester: Fifth Semester **Max. Marks:** 50 **Weightage:** 50%

CO - Levels	CO1	CO2
Marks	10	80

PART A: Answer Following Questions. 10 M

Q.N.	Questions	M	CO	BT
1	Differentiate between 'sensors' and 'transducers'.Give examples.	2	CO1	BT1
2	What is 'calibration'? Give an example from IoT based system.	2	CO1	BT1
3	What are edge devices? Give examples.	2	CO1	BT1
4	Define 'interoperability' in relevance to IoT.	2	CO1	BT1
5	Why is signal coversion significant in IoT based system design?	2	CO1	BT1

PART B : Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
6	Explain three level network architecture of IoT.	10	CO2	BT2
7	Explain IoT network architecture at device level.	10	CO2	BT2

PART C: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
8	Discuss the role of 'Sensors and acuisition module'.	10	CO2	BT2
9	Explain the four major categories of temperature sensing technology relevant for IoT based system design.	10	CO2	BT2

PART D: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
10	Explain various types of gas sensors technologies utilized in industrial IoT.	10	CO2	BT2
11	Explain the characteristics of IoT system architecture design.	10	CO2	BT2

PART E: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
12	Explain a data acquisition system.	10	CO2	BT2
13	Explain API-based IoT architecture.	10	CO2	BT2