



PRESIDENCY UNIVERSITY

BENGALURU

Roll No.															
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Mid - Term Examinations - MARCH 2026

Date: 10-03-2026

Time: 09:30am - 11:00am

School: SOCSE	Program: B.Tech		
Course Code: CIT2504	Course Name: AI and Deep Learning for IoT		
Semester: VI	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	Define Artificial Intelligence and mention any one real-world application.	2 Marks	L1	CO1
2	What is the Internet of Things (IoT)? State its significance in modern systems.	2 Marks	L1	CO1
3	What is meant by AIoT?	2 Marks	L1	CO1
4	Define an IoT Gateway.	2 Marks	L1	CO2
5	Mention any two functions of an IoT gateway in mobile-based IoT systems.	2 Marks	L1	CO2

Part B

Answer the Questions.

Total Marks 40M

6.	a.	Explain Artificial Intelligence and discuss its applications across various industries.	10 Marks	L2	C01
Or					
7.	a.	Describe the concept of IoT and explain its role in enabling smart environments.	10 Marks	L2	C01

8.	a.	Illustrate how the integration of AI and IoT leads to AIoT with a suitable real-world use case.	10 Marks	L3	C01
Or					
9.	a.	Apply AIoT concepts to design a smart healthcare monitoring system.	10 Marks	L3	C01

10.	a.	Explain the role of IoT gateways in connecting mobile devices with IoT networks.	10 Marks	L2	C02
Or					
11.	a.	Describe the architecture of a mobile-to-IoT gateway communication system.	10 Marks	L2	C02

12.	a.	Demonstrate the steps involved in configuring a mobile device to communicate with an IoT gateway.	10 Marks	L3	C02
Or					
13.	a.	Apply suitable techniques to establish a seamless mobile-to-IoT gateway connection.	10 Marks	L3	C02