GALGOTIAS UNIVERSITY

ADMISSION NUMBER												

School of University Polytechnic
Diploma in Computer Science and Engineering
Mid Term Examination - May 2024

Duration : 90 Minutes
Max Marks : 50

Sem IV - N1DF406B - Internet of Things Iot

General Instructions
Answer to the specific question asked
Draw neat, labelled diagrams wherever necessary
Approved data hand books are allowed subject to verification by the Invigilator

1) Explain the HLR and VLR role in IoT framewokr.   K2 (2)

2) Define the MAC address.   K1 (3)

3) Explain about the microprocessor, and how does it differ from a microcontroller.   K2 (4)

4) Explain about the different types of sensors based on their principles of operation   K2 (6)

5) Illustrate the key requirements for operating systems designed specifically for IoT devices.   K3 (6)

6) Illustrate the benefits of using software as a service (SaaS) for managing IoT data and applications.   K3 (9)

7) Analyze the features and advantages of IEEE 802.11 in wireless communication.   K4 (8)

8) Analyze and Compare common wireless communication protocols such as Wi-Fi, Bluetooth, Zigbee, and LoRaWAN.   K4 (12)

OR

Analyze the features and advantages of Bluetooth technology for short-range wireless communication.   K4 (12)