ADMISSION NUMBER

School of Computing Science and Engineering
Bachelor of Technology in Computer Science and Engineering
Mid Term Examination - May 2024

Duration : 90 Minutes
Max Marks : 50

Sem VI - G1UC620B - Embedded Technology and 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) State the difference between IoT and WSN. — K2 (2)

2) State the difference between IoT and M2M. — K1 (3)

3) How do you see the IoT evolving over the next 5-10 years and what impact will it have on society and the economy? — K2 (4)

4) Discuss the various types of IoT sensors and how they differ in terms of their function, features and applications. — K2 (6)

5) Explain the role of MQTT IoT-specific communication protocols in IoT-based systems — K3 (6)

6) Explain the role of IoT levels in the development of smart cities and how they can be used to improve urban planning and management — K3 (9)

7) Describe the challenges of IoT deployment and the factors that need to be considered for successful deployment — K4 (8)

8) Ellaborate how the 8051 microcontroller communicates with external devices. — K4 (12)

OR

Explain the working principle and circuit description of PIR sensor with suitable application — K4 (12)