School of Computing Science and Engineering
Bachelor of Computer Applications
Semester End Examination - Nov 2023

Duration : 180 Minutes
Max Marks : 100

Sem V - E1UA501T - Foundation of Internet of Things

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)	Distinguish M2M and WSN protocols.	K1 (2)
2)	Outline the challenges associated with IoT security and privacy.	K2 (4)
3)	Explain the role of MQTT IoT-specific communication protocols in IoT-based systems.	K2 (6)
4)	Can you outline the typical lifecycle of an IoT device, including its deployment, data collection, transmission, and eventual end-of-life considerations?	K3 (9)
5)	Discuss the challenges associated with establishing standardized protocols and regulations for IoT governance.	K3 (9)
6)	Investigate the role of wireless sensor networks in disaster management and early warning systems.	K5 (10)
7)	Analyze the impact of RFID technology on reducing manual errors and enhancing data accuracy in retail environments.	K4 (12)
8)	Discuss the various challenges faced by the IoT industry. How are these challenges being addressed and what impact do they have on the continued growth and development of IoT?	K5 (15)
9)	Investigate the role of IoT governance in addressing ethical considerations related to data usage and ownership.	K5 (15)
10)	Assume you have fan at home. You wish to control the on/off switch via the internet design a system for its control. Draw and explain the system architecture.	K6 (18)