

School of Computing Science and Engineering

Bachelor of Technology in Computer Science and Engineering Semester End Examination - Jun 2024

Duration: 180 Minutes Max Marks: 100

Sem VI - R1UC605C - Cloud based IoT Systems

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 differences between PaaS and SaaS.	K1(2)
2)	Analyze the impact of lightweight protocols on IoT device performance.	K2(4)
3)	Compare CoAP-SMS and CoAP-MQ in terms of communication efficiency.	K2(6)
4)	Explain key adaptations in IoT OSI model, emphasizing network protocols.	K3(9)
5)	Compare and elabrate the features of Rasbery PI & Arduino.	K3(9)
6)	Define Information model and controller service for smart parking IoT system	K5(10)
7)	Explain about generic IoT block diagram and elobrate about each layer involved in IoT layers	K4(12)
8)	Develop a comprehensive loT solution combined with cloud computing to optimize public transportation systems for urban mobility. Describe the integration of loT sensors in vehicles and infrastructure for real-time monitoring and traffic management.	K5(15)
9)	Design an automatic refrigerator light system with LED, switch & raspberry pi and write a python program to support the working of that design.	K5(15)
10)	Develop a architectural view of IoT Architecture with each components in detail & state any 10 IoT application sector working in detail.	K6(18)