School of Mechanical Engineering Mechanical Engineering ETE - Jun 2023

Time: 3 Hours **Marks**: 100

Sem IV - G3UB403T - lot and Cloud Based Technology

Your answer should be specific to the question asked Draw neat labeled diagrams wherever necessary

1.	Explain virtualization technology.	K2 CO1 (5)
2.	Compare Software as a Service model with Infrastructure as a Service Model.	K2 CO3 (5)
3.	Explain how IoT and Cloud computing are connected.	K2 CO2 (5)
4.	Identify multiple key challenges in cloud computing.	K3 CO2 (10)
5.	explain the key characteristics of Virtualized system in details.	K2 CO1 (10)
6.	Identify the key differences between IoT development boards Arduino & Raspberry development kit.	K3 CO2 (10)
7.	Explain sensors and their types/classes (based on Output and data type).	K3 CO3 (10)
OR		
	Differentiate the types of RFID with example and application.	K3 CO3 (10)
8.	Analyze laaS model with respect to their definition, characteristics, their significance and applications .	K4 CO3 (15)
OR		
	Analyze SaaS model with respect to their definition, properties, significance and applications in industry .	K4 CO3 (15)
9.	Analyze sensor and actuators with their types and example in detail.	K4 CO2 (15)
10.	Identify the ways in which Distributed, Grid, Cluster computing and virtualization technology benefitted the cloud computing.	K3 CO1 (15)