COER University
END SEMESTER EXAMINATION, EVEN SEM 2022-23

Time : 3 hours   Total Marks : 100
Program Name : MCA   Semester : IV
Course Name : Internet of Things   Course Code : SOC658

Note: All questions are compulsory. No student is allowed to leave the examination hall before the completion of the time.

Q. No 1	Attempt Any Four Parts. Each Question Carries 5 Marks.	CO	BL
(a)	What is the importance of Sensing Layer and Network Layer?	CO 1	1
(b)	Describe IOT world Forum Standardized architecture.	CO 1	1
(c)	Mention the advantages of Functional and Non-Functional requirement of IoT.	CO 1	2
(d)	Write a short note on Beagle Bone black.	CO 1	1
(e)	How IEEE802.15.4g differs from IEEE802.15.4?	CO 1	1

Q. No 2	Attempt Any Four Parts. Each Question Carries 5 Marks.	CO	BL
(a)	What are different challenges occurred in IoT Networking?	CO 2	1
(b)	Write short note on: MQTT and Lo Ra WAN Protocol.	CO 2	2
(c)	Analyze in detail Supervisory Control and data Acquisition with suitable example.	CO 2	4
(d)	Write a short note on IoT challenges and Backhaul Technologies.	CO 2	1
(e)	How can you ensure the security of IoT after deploying cloud services with it?	CO 2	1

Q. No 3	Attempt Any Four Parts. Each Question Carries 5 Marks.	CO	BL
(a)	Define the main features of IoT ecosystem.	CO 3	1
(b)	How can a hybrid cloud computing model assist organizations in balancing their security and flexibility requirements?	CO 3	1
(c)	Describe three deployment models used in IoT architecture.	CO 3	1
(d)	Explain the SCADA protocol.	CO 3	3
(e)	What is virtualization in cloud? Write the security attacks and their countermeasures on virtual machines.	CO 3	3

Q. No 4	Attempt Any Two Parts. Each Question Carries 10 Marks.	CO	BL
(a)	What are the two pillars of the Web of Things?	CO 4	1
(b)	Analyze how can WoT technology be applied to improve traffic management in a city?	CO 4	4
(c)	What effect will the internet of things (IoT) have in healthcare? Explain with any one example of smart device.	CO 4	2

Q. No 5	Attempt Any Two Parts. Each Question Carries 10 Marks.	CO	BL
(a)	Define Smart Grid and how it is different from traditional power grid.	CO 5	2
(b)	Explain the advantages of implementing IoT in electric vehicle automation?	CO 5	3
(c)	What parameters needed for IoT resource management techniques?	CO 5	1

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