COER University
END SEMESTER EXAMINATION, EVEN SEM 2022-23

Time Total Marks: 100 : 3 hours Program Name : M.Tech.(CSE) Semester : II

Course Name : Internet of Things Course Code : MTCS218

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

Q. No 1	Attempt Any Four Parts. Each Question Carries 5 Marks.	СО	BL
(a)	Define the role of Data Processing Layer and Application layer in IOT architecture	CO 1	2
(b)	Illustrate the technical specification of Arduino board with diagram.	CO 1	3
(c)	What are the main features of Web 3.0?	CO 1	1
(d)	Discuss Beagle Bone Black for design of IoT systems.	CO 1	2
(e)	Analyze requirements needed for working of Raspberry Pi. What are its different models available?	CO 1	4

Q. No 2	Attempt Any Four Parts. Each Question Carries 5 Marks.	CO	BL
(a)	Summarize the need of BACnet protocol for building automation.	CO 2	2
(b)	Describe how Wireless Sensor Network became one of the enabling technologies of IoT.	CO 2	3
(c)	Demonstrate Supervisory Control and Data Acquisition with diagram. What are the major components of SCADA?	CO 2	3
(d)	Mention the communication protocols used for M2M local area network.	CO 2	2
(e)	Analyze in detail IEEE 802.15.4 technology, illustrating MAC format and architecture.	CO 2	4

Q. No 3	Attempt Any Four Parts. Each Question Carries 5 Marks.	CO	BL
(a)	Classify the Functional block of IoT ecosystem.	CO 3	3
(b)	Explain the concept of Infrastructure as a Service (IaaS) and give an example of a cloud provider that offers this service.	CO 3	1
(c)	Describe the seven layers of IoT reference model with diagram.	CO 3	1
(d)	Discuss Centralized, Decentralized and Hybrid deployment model of loT architecture	CO 3	2
(e)	Evaluate the role of cloud computing in the growth of the Internet of Things (IoT).	CO 3	4

0 N- 4	Attempt Any Two Parts. Each Question Carries 10 Marks.	CO	BL
(a)	Examine the components of a unified multitier WoT architecture and their	CO 4	3
	interrelationships. Analyze the role of platform middleware in the development of WoT applications.	CO 4	4
(b)	Analyze WoT application that uses to monitor weather situation in a city.	CO 4	4

0 N F	Attempt Any Two Parts. Each Question Carries 10 Marks.	CO	BL
Q. No 5 (a)	Define some examples of real-world applications of Smart Grid technology in	CO 5	2
(b)	managing power demands. How does the Internet of Things increase autonomy in collaborative production environments?	CO 5	1
(c)	How can IoT technology be used to improve the safety and reliability of electrical vehicle charging infrastructure?	CO 5	1

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