DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Regular End Semester Examination – Summer 2022

Course: B. Tech.   Branch : Computer Science & Engineering   Semester :VI

Subject Code & Name: BTCOE604 (C)   Internet of Things

Max Marks: 60　　　　　　**Date: 23/08/2022**　　　　　　**Duration: 3.45 Hr.**

Instructions to the Students:

1. *All the questions are compulsory.*
2. *Draw neat diagram wherever necessary.*
3. *Use of non-programmable scientific calculators is allowed.*
4. *Assume suitable data wherever necessary and mention it clearly.*

		(Level/CO)	Marks
Q. 1	**Solve Any Two of the following.**		
A)	What is IoT? Explain its characteristics and application of IoT.	Application	06
B)	Explain with neat diagram different IoT communication models.	Understand	06
C)	What are the biggest challenges for IoT adoption.	Remember	06
Q.2	**Solve Any Two of the following.**		
A)	Explain communication criteria for an IoT platforms.	Understand	06
B)	What is a sensor? Explain different types of sensors.	Analysis	06
C)	Explain leading types of IoT wireless technologies.	Understand	06
Q. 3	**Solve Any Two of the following.**		
A)	Explain the need of optimization in IoT.	Understand	06
B)	Describe Message Queuing Telemetry Transport Protocol.	Understand	06
C)	Explain supervisory control and data acquisition.	Understand	06
Q.4	**Solve Any Two of the following.**		
A)	What is machine learning? Explain types of machine learning categories.	Remember	06
B)	Explain Big Data Analytics Tools and Technology.	Understand	06
C)	Explain Massively Parallel Processing Shared-Nothing Architecture.	Understand	06
Q. 5	**Solve Any Two of the following.**		
A)	Explain smart city IoT architecture with a neat diagram.	Understand	06
B)	Explain smart city security architecture with a neat diagram.	Understand	06
C)	Write a short note on smart city use-case examples.	Application	06

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