

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/CQ) Marks

Q.1 Solve Any Two of the following.

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|---|-------------|----|
| 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.

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|--|------------|----|
| 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.

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|---|------------|----|
| 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.

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|--|-------------|----|
| 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 |

*** End ***