

Enrollment No: _____

Exam Seat No: _____

C. U. SHAH UNIVERSITY

Winter Examination-2022

Subject Name : Internet of Things and Embedded System

Subject Code : 4TE08ITE1

Branch: B.Tech (CE)

Semester: 8

Date: 20/09/2022

Time: 02:30 To 05:30

Marks: 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
 - (2) Instructions written on main answer book are strictly to be obeyed.
 - (3) Draw neat diagrams and figures (if necessary) at right places.
 - (4) Assume suitable data if needed.
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Q-1 Attempt the following questions:

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|----|--|------|
| a) | What is the use of XML? | (01) |
| b) | List down any four applications of IoT. | (01) |
| c) | Write the difference between artificial intelligence and internet of things. | (01) |
| d) | What do you mean by open-source hardware? | (01) |
| e) | What is the use of ultrasonic sensor? | (01) |
| f) | Define Augmented Intelligence. | (01) |
| g) | List out any two major applications of API. | (01) |
| h) | Define the term IoT. | (01) |
| i) | List out various phases of Project development. | (01) |
| j) | How many arguments are used for pin Mode function? | (01) |
| k) | What do you mean by Data Privacy in Information sharing? | (01) |
| l) | List out the various types of XML Document. | (01) |
| m) | List out the most suitable databases for IoT. | (01) |
| n) | What do you mean by “Thingful”? | (01) |

Attempt any four questions from Q-2 to Q-8

Q-2 Attempt all questions

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|---|---|------|
| A | Discuss about various components of Internet of Things. | (07) |
| B | Explain about major issues arise in Sensor Technology . | (07) |

Q-3 Attempt all questions

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|---|---|------|
| A | Explain the JASON program structure and its datatypes. | (07) |
| B | What are the different layers of the IoT protocol stack? Explain the classification of IoT protocols. | (07) |

Q-4 Attempt all questions

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|---|---|------|
| A | Illustrate the usage of various level of user engagement in Design. | (07) |
| B | Explain the structure of an Arduino sketch. | (07) |



