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MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
(Autonomous Institution – UGC, Govt. of India)
III B.Tech II Semester Regular Examinations, May 2023
Full Stack Development
(CSE & CSE-AIML)

Roll No										

Time: 3 hours   **Max. Marks: 70**

Note: This question paper Consists of 5 Sections. Answer **FIVE** Questions, Choosing ONE Question from each SECTION and each Question carries 14 marks.

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SECTION-I

1   Write script to Create HTML document with table and frames.   **[14M]**

OR

2   Explain about different type of CSS with an example program.   **[14M]**

SECTION-II

3   a) Describe the various ways objects are created in Java Script   [7M]

b) write script of college admission form using java script   [7M]

OR

4   a)Write short note on HTML events with JavaScript   [7M]

b) Explain about control structures in Java Script   [7M]

SECTION-III

5   a) What is React JS and explain with example?   [8M]

b) Write short note on commands to create and run a New React Project.   [6M]

OR

6   Explain in detail Single Page Applications React Forms with example.   **[14M]**

SECTION-IV

7   Write short note on Spring Framework and what are the advantage of Springs   **[14M]**
Framework

OR

8   Describe in detail Steps to create spring application   **[14M]**

SECTION-V

9   Write a program to insert a record using Spring JDBC   **[14M]**

OR

10   Write a program to read records using Spring JDBC   **[14M]**

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MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
(Autonomous Institution – UGC, Govt. of India)
III B.Tech II Semester Regular Examinations, May 2023
Machine Learning
(CSE, CSE-CS, CSE-DS & CSE-IOT)

Roll No										

Time: 3 hours   **Max. Marks: 70**

Note: This question paper Consists of 5 Sections. Answer **FIVE** Questions, Choosing ONE Question from each SECTION and each Question carries 14 marks.

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SECTION-I

1. Compare and contrast supervised and unsupervised learning? Explain with the examples. **[14M]**

OR

2. Explain about Principle Component Analysis(PCA) with example **[14M]**

SECTION-II

3. Design a decision tree with CART algorithm with an example. **[14M]**

OR

4. Explain about Naive Bayes algorithm with an example. **[14M]**

SECTION-III

5. a) Explain about the ANN(Artificial Neural Networks) **[7M]**
   b) Discuss about the Confusion matrix, ROC curves **[7M]**

OR

6. Illustrate the Convolutional Neural Networks. **[14M]**

SECTION-IV

7. a) What is Overfitting, Underfitting explain with an example **[7M]**
   b) Define Cross Validation - Holdout Method, K-Fold explain with an example. **[7M]**

OR

8. Explain about Bagging Ensemble Method **[14M]**

SECTION-V

9. Explain about K-means and K-Modes with example in detail. **[14M]**

OR

10. Discuss about non-associative learning, Markov decision processes in RL **[14M]**

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MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
(Autonomous Institution – UGC, Govt. of India)
III B.Tech II Semester Regular Examinations, May 2023
Distributed Systems
(CSE)

Roll No										

Time: 3 hours　　　　　　　　　　　　　　　　　　　**Max. Marks: 70**

Note: This question paper Consists of 5 Sections. Answer **FIVE** Questions, Choosing ONE Question from each SECTION and each Question carries 14 marks.

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SECTION-I

1　　Describe various challenges in distributed systems in detail　　　　**[14M]**

OR

2　　What are the different system models of distributed systems? Explain?　　**[14M]**

SECTION-II

3　　Explain Skew between computer clocks in a distributed system ?　　**[14M]**

OR

4　　What is the need of election algorithm? Explain ring based election algorithm　**[14M]**

SECTION-III

5　　Explain in detail about client server communication?　　　　　**[14M]**

OR

6　　Explain RPC with a neat example?　　　　　　　　　　　　**[14M]**

SECTION-IV

7　　Explain File Service Architecture in distributed system?　　　　**[14M]**

OR

8　　Explain Sequential consistency in Distributed Shared Memory?　　**[14M]**

SECTION-V

9　　Discuss the optimistic concurrency control?　　　　　　　　**[14M]**

OR

10　　Explain about transaction recovery in distributed systems?　　**[14M]**

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MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
(Autonomous Institution – UGC, Govt. of India)
III B.Tech II Semester Regular Examinations, May 2023
Cyber Security
(CSE, CSE-AIML, CSE-DS & CSE-IOT)

Roll No										

Time: 3 hours　　　　　　　　　　　　　　　　　　　　　　　　**Max. Marks: 70**

Note: This question paper Consists of 5 Sections. Answer **FIVE** Questions, Choosing ONE Question from each SECTION and each Question carries 14 marks.

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SECTION-I

1　Write the various layers of cyber security with examples.　　**[14M]**

OR

2　Explain the taxonomy of various attacks in cyber field.　　**[14M]**

SECTION-II

3　Discuss the role of International Laws for cyber-crime.　　**[14M]**

OR

4　Write the various approaches involved in the Forensics Analysis of Email.　　**[14M]**

SECTION-III

5　Explain the various trends in Mobility and the popular types of attacks in mobile networks.　　**[14M]**

OR

6　Discuss the Organisational security policies and measures in mobile computing Era.　　**[14M]**

SECTION-IV

7　Describe in details about the cost of cyber crimes and IPR issues.　　**[14M]**

OR

8　Differentiate Cybercrime and Cyber Terrorism. Explain any five cyber attacks which have more impacts on national and international level.　　**[14M]**

SECTION-V

9　Illustrate any two real time cybercrimes which happened in India.　　**[14M]**

OR

10　Explain in detail about the Data Linkage and Profiling process.　　**[14M]**

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MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
(Autonomous Institution – UGC, Govt. of India)
III B.Tech II Semester Regular Examinations, May 2023
Robotics & Automation
(CSE, IT, CSE-CS, CSE-AI&ML, CSE-DS & CSE-IOT)

Roll No

Time: 3 hours **Max. Marks: 70**

Note: This question paper Consists of 5 Sections. Answer **FIVE** Questions, Choosing ONE Question from each SECTION and each Question carries 14 marks.

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SECTION-I

1	Explain about four categories of Embedded System based on their functional and performance requirements.	**[14M]**

OR

2	What are the three categories of Real-Time Embedded Systems? Explain physical constrains and various scheduling algorithms.	**[14M]**

SECTION-II

3	What are the Classifications in Robots? Explain in detail.	**[14M]**

OR

4	Explain about Servo Motor Working Mechanism with its three components.	**[14M]**

SECTION-III

5	Explain about AVR Microcontroller architecture with block diagram	**[14M]**

OR

6	Draw the Pin diagram of AVR Micro Controller and explain in detail.	**[14M]**

SECTION-IV

7	Explain about ARM Core Dataflow Model with functional units.	**[14M]**

OR

8	How to implement pipeline concept in ARM? Explain in detail.	**[14M]**

SECTION-V

9	What is Robotic perception? Explain the active and interpersonal perception.	**[14M]**

OR

10	Explain the planning uncertain movements with example.	**[14M]**

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