

Code No: R20A0518

R20

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

III B.Tech II Semester Supplementary Examinations, January 2024

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.

SECTION-I

- 1 a) What are the feature Normalization methods and explain with examples. [7M]
b) Explain briefly about the deep learning. [7M]

OR

- 2 Explain about Linear Discriminant Analysis (LDA) with example [14M]

SECTION-II

- 3 a) List the regression Performance Metrics explain with examples [7M]
b) Explain K-Nearest-Neighbours (KNN) with example [7M]

OR

- 4 Explain about Support Vector Machines (SVM) – linear model [14M]

SECTION-III

- 5 a) Explain about Back Propagation Algorithm [7M]
b) Discuss briefly about Artificial Neural Networks (ANN) [7M]

OR

- 6 Discuss and formulate all Classification Metrics. [14M]

SECTION-IV

- 7 a) Write a short notes on bias, variance and trade off [5M]
b) Briefly explain about ensemble methods. [9M]

OR

- 8 Explain Random Forest algorithm [14M]

SECTION-V

- 9 Explain about Gaussian Mixture Models, Expectation-Maximization. [14M]

OR

- 10 Explain about Q-learning in RL [14M]

Code No: R20A0517

R20

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

III B.Tech II Semester Supplementary Examinations, January 2024

Distributed Systems

(CSE)

Roll No									
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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.

SECTION-I

1 Discuss the benefits of resource sharing and explain its significance? [14M]

OR

2 Demonstrate the design requirements for distributed architectures. [14M]

SECTION-II

3 Discuss in detail about clocks, events and process states? [14M]

OR

4 What is multicast communication? Explain in detail? [14M]

SECTION-III

5 Write about inter process communication in UNIX. [14M]

OR

6 Discuss in detail about request reply protocol and RPC [14M]

SECTION-IV

7 Draw and explain the architecture of SUN Networks File System [14M]

OR

8 Explain in detail about consistency models. [14M]

SECTION-V

9 Explain in detail about timestamp ordering rule [14M]

OR

10 Explain in detail about the well-known problems of concurrent transactions [14M]

Code No: R20A6202

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

III B.Tech II Semester Supplementary Examinations, January 2024**Cyber Security**

(CSE, CSE-AIML & 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.

SECTION-I

- 1 Briefly elaborate the terms Vulnerability, threats and Harmful Acts in cyber security. [14M]

OR

- 2 Explain with neat diagram about the active attack and passive attack with examples. [14M]

SECTION-II

- 3 Discuss about the Indian Cyberspace and National Cyber Security policy in detail. [14M]

OR

- 4 Illustrate the basics about cyber forensics and digital forensics. Also explain the need for computer forensics, cyber forensics and digital evidence. [14M]

SECTION-III

- 5 Write in detail about the Credit Card Frauds in Mobile and Wireless Computing Era. [14M]

OR

- 6 Explain the various organisational policies for the use of mobile hand-held devices. [14M]

SECTION-IV

- 7 Discuss in detail about the various web threats for organization. [14M]

OR

- 8 Differentiate between Hackers, cyber criminals and explain the mindset and skills of hackers and other cybercriminals. [14M]

SECTION-V

- 9 Elaborate the various elements of Privacy policies and their specifications in detail. [14M]

OR

- 10 Write a brief note on E-mail spoofing instance and Financial Frauds in cyber domain. [14M]

Code No: R20A0453

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

III B.Tech II Semester Supplementary Examinations, January 2024**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.

SECTION-I

- 1 Explain about overview of Embedded System Architecture and its components. [14M]

OR

- 2 a) Differentiate between Micro Processors and Micro Controllers. [7M]

- b) Explain about Robotics and different types of robotics [7M]

SECTION-II

- 3 Explain about construction of DC motor and its working principle. [14M]

OR

- 4 Explain about types of sensors and various types of Gears. [14M]

SECTION-III

- 5 Explain about AVR family architecture with neat diagram [14M]

OR

- 6 How to handle the Interrupts in AVR Microcontroller? Explain. [14M]

SECTION-IV

- 7 Explain the Registers architecture and processor modes of ARM processor [14M]

OR

- 8 Explain about ARM Interrupt Structure in detail. [14M]

SECTION-V

- 9 Explain about localization and mapping with example. [14M]

OR

- 10 Explain about dynamics and control of movement with example. [14M]

Code No: R20A0516**MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY****(Autonomous Institution – UGC, Govt. of India)****III B.Tech II Semester Supplementary Examinations, January 2024****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.

SECTION-I

- 1 a) What are the different types of lists in HTML? [7M]
b) how to insert image in a html page? [7M]

OR

- 2 a) Explain frontend and backend development with examples. [7M]
b) what are form elements in html explain with example [7M]

SECTION-II

- 3 a) Explain how memory usage is done in Java Script. [7M]
b) What is Java Script? Explain with suitable examples. [7M]

OR

- 4 a) Explain how events are handled in Javascript. [7M]
b) write script for mouse event and submit event using jquery [7M]

SECTION-III

- 5 a) Explain the Features of React JS [7M]
b) Write a program to Create a Simple Login form using React js [7M]

OR

- 6 a) Describe the react router with an example [7M]
b) Write a program to create a simple calculator UI using React JS [7M]

SECTION-IV

- 7 Explain spring MVC in detail [14M]

OR

- 8 a) Describe the Spring with example in detail. [7M]
b) Explain the OOP Features in Java [7M]

SECTION-V

- 9 a) Write a program to delete a record using Spring JDBC [7M]
b) Explain about DML Query with example [7M]

OR

- 10 a) Write a program to update a record using Spring JDBC [7M]
b) Describe DCL and TCL in detail with example [7M]
