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MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
(Autonomous Institution – UGC, Govt. of India)
IV B.Tech I Semester Supplementary Examinations, April 2023
Cloud Computing
(CSE & IT)

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	A	What is Cloud Computing? List the advantages of Cloud Computing.	[7M]
	B	Discuss Layers and Types of Cloud Computing.	[7M]

OR

2	A	Elaborate the roots of the Cloud Computing.	[7M]
	B	Distinguish between High-Performance Computing and Parallel Computing.	[7M]

SECTION-II

3	A	Explain the four Enterprise Cloud Adaption Strategies using fundamental cloud drivers.	[7M]
	B	Why SaaS Integration is hard? Give valid reasons.	[7M]

OR

4	A	Discuss about the Pervasive Data Cloud.	[7M]
	B	Elaborate the characteristics of Integration Solutions and Products.	[7M]

SECTION-III

5	A	Explain various Migration techniques used in Virtual Machine Migration.	[7M]
	B	Analyse Aneka framework architecture with a neat diagram.	[7M]

OR

6	A	What are the challenges and risks in the model computing?	[7M]
	B	Discuss VM provisioning and migration in action.	[7M]

SECTION-IV

7	A	Analyse the desired features of a cloud with an example.	[7M]
	B	How Google App Engine will combine the three services? Discuss with an example.	[7M]

OR

8	A	List and explain Web Mail Services in cloud.	[7M]
	B	Analyse technologies for data security in cloud computing.	[7M]

SECTION-V

9	A	Discuss the Flow chart SLA management in cloud computing.	[7M]
	B	What is the significance of Life Cycle in the cloud computing? Explain with an example.	[7M]

OR

10	A	State the traditional approaches in SLA management and explain.	[7M]
	B	Distinguish between SLA and SLO in cloud.	[7M]

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MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
(Autonomous Institution – UGC, Govt. of India)
IV B.Tech I Semester Supplementary Examinations, April 2023
Data Warehousing and Data Mining
(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	**A**	What actions would you take to perform various Extraction-Transformation-Loading with neat sketch?	**[7M]**
	B	How would you develop multi-dimensional to present data mining?	**[7M]**

OR

2	**A**	How would you demonstrate Non Addictive Measures?	**[7M]**
	B	How can you perform Dimension Table Characteristics according to data mining?	**[7M]**

SECTION-II

3	**A**	What explanation do you have for Classification of Data Mining systems with an example?	**[10M]**
	B	What can you infer from data cleaning?	**[4M]**

OR

4	**A**	Explain data mining pre processing technique in detail.	**[7M]**
	B	How would you explain Hierarchy Generation methods with an example?	**[7M]**

SECTION-III

5	**A**	What is the problem with Apriori Algorithm? How would you demonstrate FP Growth with suitable example?	**[12M]**
	B	Write the short note on FP growth algorithm.	**[2M]**

OR

6	**A**	How would you solve the Partition Algorithms in detail?	**[7M]**
	B	What actions would you take to perform Association Rule Generation with suitable example?	**[7M]**

SECTION-IV

7	**A**	How can you classify various methods according to Expressing attribute test conditions?	**[7M]**
	B	How is Measures connected to Selecting the Best Split method?	**[7M]**

OR

8	**A**	What can you infer the K- Nearest neighbor classification-Algorithm?	**[7M]**
	B	What Characteristics would you use to assess a K- Nearest neighbor classification-Algorithm?	**[7M]**

SECTION-V

9	**A**	How would you demonstrate PAM with suitable example?	**[7M]**
	B	How can you compare the different key issues in Hierarchical Clustering?	**[7M]**

10 **A** How would you develop Partitioning to present Clustering-K-Means **[10M]**
         Algorithm?

   B How would you explain Hierarchical Methods with suitable example? **[4M]**

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MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
(Autonomous Institution – UGC, Govt. of India)
IV B.Tech I Semester Supplementary Examinations, April 2023
Linux Programming
(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	A	Discuss the different Text processing utilities and Backup utilities with example.	[7M]
	B	Discuss the control structures and arithmetic in shell	[7M]

OR

2	A	What is meant by path and pathname in Linux? Explain them in detail.	[7M]
	B	Write and explain the different shell commands and the environment.	[7M]

SECTION-II

3	A	Explain in detail foreground and background jobs. Give example	[7M]
	B	What is a filter? Illustrate all filters with appropriate examples	[7M]

OR

4	A	What is a Directory? Write short note on Directory implementation.	[7M]
	B	What is stat and fstat? Explain the differences.	[7M]

SECTION-III

5	A	What is the significance of process termination? How to handle zombie and orphan processes.	[7M]
	B	Differentiate between wait( ) and waitpid( ).	[7M]

OR

6	A	Explain fork, vfork and exec system calls	[7M]
	B	What is the significance of signal? List the uses of the signals	[7M]

SECTION-IV

7	A	Explain file locking with semaphores.	[7M]
	B	Write a program to demonstrate the function of a pipe	[7M]

OR

8	A	Explain about the kernel data structure for message queues.	[7M]
	B	Write the differences between unnamed and named pipes.	[7M]

SECTION-V

9	A	How the shared memory overcome the limitations of pipes and message queues? Explain.	[7M]
	B	Explain the socket() system call with functional details.	[7M]

OR

10	A	Write the client server example. Discuss the different phases of connection.	[7M]
	B	Discuss the shared memory related system calls with syntax.	[7M]

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MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
(Autonomous Institution – UGC, Govt. of India)
IV B.Tech I Semester Supplementary Examinations, April 2023
Machine Learning
(CSE & IT)

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.
14 marks.

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SECTION-I

1	A	Discuss about learning models with example	**[7M]**
	B	Explain the type of training experience available for a learning system	**[7M]**

OR

2	A	Discuss about K means clustering with an example	**[10M]**
	B	Explain supervised learning with suitable examples.	**[4M]**

SECTION-II

3	A	Explain the two types of Decision Trees with examples	**[7M]**
	B	Explain when to use Classification and Regression Trees in machine learning.	**[7M]**

OR

4	A	Explain ID3 algorithm in detail.	**[7M]**
	B	Discuss the advantages of Classification and Regression Trees	**[7M]**

SECTION-III

5	A	Explain the algorithm of Bagging.	**[10M]**
	B	Explain Gaussian mixture models.	**[4M]**

OR

6	A	Explain Nearest Neighbour Smoothing method.	**[10M]**
	B	Discuss efficient computations of KD-tree.	**[4M]**

SECTION-IV

7	A	Explain the algorithm of Q-learning.	**[7M]**
	B	Write short notes on Reinforcement learning problem characteristics.	**[7M]**

OR

8	A	How to calculate the optimum policy in reinforcement learning?	**[7M]**
	B	What evaluation function should the agent attempt to learn?	**[7M]**

SECTION-V

9	A	How to estimate Hypothesis Accuracy in reinforcement learning	**[7M]**
	B	Explain Version Space representation theorem.	**[7M]**

OR

10	A	What is genetic algorithm? Explain briefly with an example.	**[10M]**
	B	Discuss about genetic operators.	**[4M]**

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MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
(Autonomous Institution – UGC, Govt. of India)
IV B.Tech I Semester Supplementary Examinations, April 2023
Software Testing Methodologies
(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		Why is it impossible for a tester to find all the bugs in a system? Why might it not be necessary for a program to be completely free of defects before it is delivered to its customers?	**[14M]**

OR

2	A	Explain consequences and importance of bugs.	**[7M]**
	B	Discuss about requirements, features and functionality bugs.	**[7M]**

SECTION-II

3	A	Explain data-flow testing with an example. Explain its generalizations and Limitations	**[7M]**
	B	What is transaction instrumentation in transaction flow? Explain with example.	**[7M]**

OR

4	A	What is meant by program's control flow? How is it useful for path testing?	**[7M]**
	B	What are link counters? Discuss their use in path testing?	**[7M]**

SECTION-III

5	A	What is meant by nice - domain? Give an example for nice two - dimensional domain.	**[7M]**
	B	State and explain various restrictions at domain testing processes	**[7M]**

OR

6	A	Define Domain? Explain Domain closure, domain dimensionality in detail?	**[7M]**
	B	Discuss i) Non linear domain boundaries ii) Complete domain boundaries.	**[7M]**

SECTION-IV

7		Explain Regular Expressions and Flow Anomaly detection with example.	**[14M]**

OR

8	A	What is KV-Chart? Draw KV-chart for 4 variables	**[7M]**
	B	Explain path expression with example.	**[7M]**

SECTION-V

9	A	Write testers comments about state graphs	**[7M]**
	B	What are graph matrices and their applications?	**[7M]**

OR

10	A	Categorize various testing tools necessary for testing	**[7M]**
	B	What are the principles of state testing. Discuss advantages and disadvantages.	**[7M]**

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