Code No.: **50527**

**MR15-(2015-16 Batch)**

# MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)

(Affiliated to JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD)
Gundlapochampally (H), Maisammaguda (V), Medchal (M), Medchal-Malkajgiri (Dist), Hyderabad

## IV B.TECH I SEMESTER SUPPLEMENTARY EXAMINATIONS, NOVEMBER-2019

Subject: **DATA MINING & DATA WAREHOUSING**

Branch: **CSE**

**Time: 3 hours** **Max. Marks: 60**

**PART – A**

**Answer ALL questions of the following** **5x2M=10 M**

1. What is KDD?
2. What is Boosting?
3. Write about the advantages of correlation analysis.
4. What is Bayes theorem used in classification?
5. What are the types of data in cluster analysis?

**PART-B**

**Answer any FIVE questions of the following** **5x10 M= 50M**

1. a) Explain the classification of Data Mining Systems.
   b) Explain about Data Integration and Transformation.
2. What are the differences between three main types of DW usage: Information processing, analytical processing and data mining?
3. Compare and contrast different types of OLAP servers.
4. a) How efficiency of Apriory algorithm can be improved.
   b) Write about Iceberg queries.
5. a) How to mine distance based association rules?
   b) Illustrate with example in detail, the process of generating association rules from frequent item sets.
6. a) What are different measures that are used to estimate classifier accuracy?
   b) How to increase classification accuracy?
7. a) Explain in brief about Mining WWW.
   b) Why is outlier mining important? Briefly describe the different approaches behind statistical based out Lier detection, distance based outlier detection, distance based outlier detection and deviation based outlier detection?
8. Write short notes on any **two** of the following
   a) Brute force method for candidate generation
   b) Define network topology in back propagation
   c) Tree pruning.

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## IV B.TECH I SEMESTER SUPPLEMENTARY EXAMINATIONS, NOVEMBER-2019

Subject: **ADVANCED COMPUTER ARCHITECTURE**

Branch: **CSE**

**Time: 3 hours** **Max. Marks: 60**

### PART – A

**Answer ALL questions of the following** **5x2M=10 M**

1. What is GPU?
2. What are the uses of cuSPARSE library?
3. Write the command to copy the variable value from host to device.
4. List out the performance metrics of CUDA.
5. Elaborate the need for CUDA profiler.

### PART-B

**Answer any FIVE questions of the following** **5x10 M= 50M**

1. a) Write about thread creation in GPU.
   b) Write a short note on transparent scalability.
2. Demonstrate the cuRAND workflow for using the host API.
3. a) Write a CUDA program to print "Hello World".
   b) Discuss CUDA-C on GPU
4. List and explain the kernel responsibilities in detail.
5. Explain briefly about the following related to performance metrics.
   a) Speed-up b) Efficiency
6. Write about pinned memory.
7. Discuss briefly about the following:
   a) CUDA Debugger b) CUDA Streams
8. Write short notes on any two of the following
   a) Differentiate single threaded and multithreaded process.
   b) List the benefits of CUDA libraries.
   c) Write and explain the command to upgrade the CUDA package.

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MR15

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## IV B.TECH I SEMESTER SUPPLEMENTARY EXAMINATIONS, NOVEMBER-2019

Subject: **CLOUD COMPUTING**

Branch: CSE

**Time: 3 hours** **Max. Marks: 60**

### PART – A

**Answer ALL questions of the following** **5x2M=10 M**

1. What is peer-to-peer computing?
2. List the companies who offered cloud service development.
3. Write about vulnerability assessment.
4. What do you mean Collaborating on Budgets.
5. Write short notes on Amazon S3.

### PART-B

**Answer ANY FIVE questions of the following** **5x10 M= 50M**

1. Explain the cloud storage companies a) Drop box b) Google drive.

2. a) List and explain various cloud services.
   b) Is the network is the computer? Justify.

3. Write in detail about Amazon EC2 and its services.

4. Explain in detail about On-Demand Computing.

5. Explain in detail about the cloud security challenges.

6. Explain the centralizing email communications.

7. Describe the security features involved in IBM clouds.

8. Briefly explain case study of a) Oracle OBIEE b) App Exchange.

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## IV B.TECH I SEMESTER SUPPLEMENTARY EXAMINATIONS, NOVEMBER-2019

Subject: **ARTIFICIAL INTELLIGENCE**

Branch: **CSE**

**Time: 3 hours** **Max. Marks: 60**

### PART – A

**Answer ALL questions of the following** **5x2M=10 M**

1. What are the essential features of production system in an Artificial Intelligence?
2. What are the various issues in knowledge representation?
3. Define Bayes rule.
4. What is partial order planning?
5. Why do we use an Expert system?

### PART-B

**Answer any FIVE questions of the following** **5x10 M= 50M**

1. Discuss hill climbing search method. Also discuss limitations and ways to overcome these limitations.
2. Consider the following facts.
   - i) All hounds howl at night.
   - ii) Anyone who has any cats will not have any mice.
   - iii) Light sleepers do not have anything which howl at night.
   - iv) John has either a cat or a hound.
   - v) If John is a light sleeper, then John does not have any mice.(conclusion)

   a) Translate the above sentences into formulas in predicate logic.
   b) Prove the conclusion by resolution clause.
3. a) Differentiate the DFS and BFS with merits and demerits.
   b) How do scripts work in knowledge representation?
4. a) Bag I contains 4 white and 6 black balls while another Bag II contains 4 white and 3 black balls. One ball is drawn at random from one of the bags and it is found to be black. Find the probability that it was drawn from Bag I. Apply Bayes theorem and find the solution.
   b) Write a Script for a bank robbery.
5. a) Explain about waltz algorithm.
   b) Explain about alpha-beta pruning with a relevant example.
6. Explain about the non linear planning with an example.
7. a) Describe the Expert System Development Procedure.
   b) Explain about rote learning with suitable example.
8. Write short notes on any two of the following
   a) How do you solve the monkey-banana problem? Write down the algorithm used to resolve it.
   b) Write down the unification algorithm.
   c) Design an Expert system to analyze the elements of chemical compounds.