

G.PULLAIAH COLLEGE OF ENGINEERING AND TECHNOLOGY
(AUTONOMOUS)

B.Tech III Year II Semester Regular Examinations MAY 2023

Subject Name: **Cloud Computing**

Branch: **Computer Science and Engineering**

Time: 3 Hours

Max. Marks: 60

Instructions:

1. Answer all 5 questions from Part-A. Each question carries two marks
2. Answer one full question from each unit in Part-B. Each full question carries 10 marks

PART-A

- | | | | | | |
|---|---|---|----|-----|------|
| 1 | a | What is meant by public cloud? | 2M | CO1 | BTL1 |
| | b | What are IaaS and its benefits? | 2M | CO2 | BTL1 |
| | c | What is the function of PaaS? | 2M | CO3 | BTL1 |
| | d | Is Netflix A SaaS? Justify the statement. | 2M | CO4 | BTL1 |
| | e | Write the full form of CCRA. | 2M | CO5 | BTL1 |

PART-B

UNIT-I

- | | | | | | |
|---|---|---|----|-----|------|
| 2 | a | Explain Advantages and disadvantages of IAAS. | 5M | CO1 | BTL2 |
| | b | Explain the cloud service model architecture. | 5M | CO1 | BTL3 |

OR

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|---|--|---|----|-----|------|
| 3 | | What is cloud computing? Enlist and explain three service models, and four deployment models of cloud computing | 5M | CO1 | BTL2 |
|---|--|---|----|-----|------|

UNIT-II

- | | | | | | |
|---|--|---|-----|-----|------|
| 4 | | Discuss the Infrastructure as a Service delivery model. | 10M | CO2 | BTL4 |
|---|--|---|-----|-----|------|

OR

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|---|--|--|-----|-----|------|
| 5 | | Explain the various examples of the Infrastructure as a Service. | 10M | CO2 | BTL3 |
|---|--|--|-----|-----|------|

UNIT-III

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|---|--|--|----|-----|------|
| 6 | | Describe the applicability of PaaS in the industry | 5M | CO3 | BTL2 |
|---|--|--|----|-----|------|

OR

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|---|---|--|----|-----|------|
| 7 | a | List and explain the four types of PaaS. | 5M | CO3 | BTL4 |
| | b | Explain the examples of PaaS. | 5M | CO3 | BTL2 |

UNIT-IV

- 8 a Explain the Software as a Service delivery model. 5M CO4 BT
b Discuss the characteristics of SaaS. 5M CO4 BT

OR

- 9 Briefly explain the advantages and limitations of software as service. 10M CO4 BT

UNIT-V

- 10 List and explain the benefits of CCRA. 10M CO5 BT

OR

- 11 Give a brief note on cloud computing reference architecture in cloud computing. 10M CO5 BT

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(AUTONOMOUS)

B.Tech III Year II Semester Regular Examinations MAY 2023

Subject Name: **Machine Learning**

Branch: **Computer Science and Engineering**

Time: 3 Hours

Max. Marks: 60

Instructions:

1. Answer all 5 questions from Part-A. Each question carries two marks
2. Answer one full question from each unit in Part-B. Each full question carries 10 marks

PART-A

- | | | | | | |
|---|---|---|----|-----|------|
| 1 | a | Give Example Supervised Learning. | 2M | CO1 | BTL2 |
| | b | How to calculate Euclidian Distance? | 2M | CO2 | BTL1 |
| | c | Give Main principle of K-Means Clustering. | 2M | CO3 | BTL2 |
| | d | What is the use of PCA in Machine Learning. | 2M | CO4 | BTL1 |
| | e | Define Outliers. | 2M | CO5 | BTL1 |

PART-B

UNIT-I

- | | | | | | |
|---|---|---|----|-----|------|
| 2 | a | Discuss the effect of reduced Error pruning in decision tree algorithm. | 5M | CO1 | BTL6 |
| | b | Explain about Linear Regression. | 5M | CO1 | BTL1 |

OR

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|---|---|---|----|-----|------|
| 3 | a | Construct decision tree for (A XOR B) OR C. | 5M | CO1 | BTL3 |
| | b | Write about Generalization error bounds. | 5M | CO1 | BTL2 |

UNIT-II

- | | | | | | |
|---|---|-----------------------------------|----|-----|------|
| 4 | a | Explain about random forest tree. | 5M | CO2 | BTL1 |
| | b | Write algorithm for Adaboost. | 5M | CO2 | BTL2 |

OR

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|---|---|--|----|-----|------|
| 5 | a | Describe about Voting in Machine Learning. | 5M | CO2 | BTL2 |
| | b | Discuss the Perceptron training rule. | 5M | CO2 | BTL6 |

UNIT-III

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|---|---|--|----|-----|------|
| 6 | a | Write about different stages in Self Organizing Map. | 5M | CO3 | BTL1 |
| | b | Describe about steps in EM algorithm. | 5M | CO3 | BTL2 |

OR

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|---|---|--|----|-----|------|
| 7 | a | What is the concept of Gaussian mixture model and Explain. | 5M | CO3 | BTL2 |
| | b | Write algorithm for K mode clustering. | 5M | CO3 | BTL1 |

UNIT-IV

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|---|---|--|----|-----|------|
| 8 | a | | 5M | CO4 | BTL2 |
|---|---|--|----|-----|------|

Describe about Exploratory factor analysis.
b Explain Locally Linear Embedding.

5M CO4 BTL1

OR

- 9 a Write PCA algorithm.
b Explain about steps in PCA.

5M CO4 BTL1

5M CO4 BTL1

UNIT-V

- 10 a Explain any 2 feature selection methods in ML?
b What is imbalanced data and how to handle imbalanced dataset?

5M CO5 BTL2

5M CO5 BTL1

OR

- 11 a Write difference between NULL and Missing values. How to handle missing values in ML.
b Analyze the design of machine learning algorithms.

5M CO5 BTL2

5M CO5 BTL4
