



QP CODE: 23709207



Reg No :

Name :

MCA DEGREE EXAMINATIONS, MAY 2023

Third Semester

Master of Computer Application

Elective - MCA304ET1 - CLOUD COMPUTING

2020 Admission Onwards

ACFE1776

Time: 3 Hours

Maximum: 75 Marks

Part A

Answer any ten questions

Each question carries 3 marks

1. Describe public cloud with an example.
2. Explain pros and cons in Cost Factor.
3. Define Pros and Cons of cloud computing and services.
4. Differentiate Single cloud site architecture and redundant 3 tier architecture.
5. Define Storage virtualization.
6. What are data storage challenges?
7. What is CloudFS and why it is used?
8. State the key security challenges in cloud environments.
9. Explain about the requirements to have a secure software cloud environment.
10. State how Google Apps can be used for Education.
11. Write short note on Amazon SQS (Simple Queue Service).
12. Explain Autonomic Computing?

(10×3=30 marks)





Part B

Answer *all* questions

Each question carries **9** marks

13. a) Explain cloud computing. How businesses benefit from it?

OR

b) Explain pros and cons of cloud computing.

14. a) Explain in detail about Cloud Application Architecture.

OR

b) Explain Network and Storage virtualization and its benefits.

15. a) Explain with diagram data storage management process in Cloud.

OR

b) What are the applications utilizing cloud storage.

16. a) Explain about CIA.

OR

b) Define Hadoop and explain In what ways is Hadoop better than existing distributed databases?

17. a) Explain cloud computing in fund management. What are the benefits of it?

OR

b) What is mobile cloud computing (MCC)? Explain the features and requirements of MCC in detail.

(5×9=45 marks)





QP CODE: 23709200



Reg No :

Name :

MCA DEGREE EXAMINATIONS, MAY 2023

Third Semester

Master of Computer Application

Core - MCACT301 - MACHINE LEARNING TECHNIQUES

2020 Admission Onwards

FA203E8D

Time: 3 Hours

Maximum: 75 Marks

Part A

*Answer any **ten** questions*

*Each question carries **3** marks*

1. Explain about Machine Learning.
2. What is the meaning of the terms Artificial Intelligence and Machine Learning.
3. In the context of classification problems explain the following terms with examples: (i) hypothesis (ii) hypothesis class
4. Define the terms a) Mean Absolute Error(MAE) b) Mean Squared Error (MSE) c) Root Mean Squared Error(RMSE)
5. Explain the concept of a decision tree with an example.
6. Discuss about binary feature selection.
7. Differentiate between Factor analysis and PCA?
8. Explain about Clustering.
9. What do you mean by Divisive clustering ? Give an example.
10. Differentiate density-reachable and directly density reachable.
11. Compare and contrast between Biological Neurons and Artificial Neurons.
12. What do you mean by Perceptron?

(10×3=30 marks)





Part B

Answer *all* questions

Each question carries **9** marks

13. a) Distinguish between supervised learning and Reinforcement learning. Illustrate with an example.

OR

b) Define Machine Learning? Explain with example why Machine Learning is important.

14. a) Discuss about learning class in Machine Learning with an example.

OR

b) Explain about different Univariate Trees with example.

15. a) Explain the method of feature Extraction and feature Selection.

OR

b) Discuss the concept of principal Component Analysis.

16. a) Explain different types of clustering.

OR

b) Discuss about the terms i)Voting ii)Bagging iii)Boosting

17. a) Explain about Perceptron neural network and its training algorithm.

OR

b) Explain about multilayer feedforward neural network with diagram.

(5×9=45 marks)

