

GUJARAT TECHNOLOGICAL UNIVERSITY**POST GRADUATE DIPLOMA IN BIOINFORMATICS SEMESTER - 1 WINTER 2022
EXAMINATION****Subject Code:1310204****Date:6 Jan 2023****Subject Name:Cloud Computing, Data Mining & Visualization****Time:10:30 AM TO 01:00 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Draw neat and clean diagrams as required

Q.1 Write a note on following (Marks-10X2=20)

1. What do you mean by Cloud Computing?
2. Define Load Balancing and Virtualization in cloud.
3. Give any six disadvantages of Cloud Computing.
4. What do you mean by data mining?
5. Describe any two tools used for data visualization.
6. Give an overview of cloud services.
7. Define Hyper Visor in reference of cloud computing.
8. What are the different techniques and advances in the field of computational biology?
9. Give an overview of PowerBi.
10. Explain K-nearest neighbour classifier.

Q.2 Answer the following (Any 2 out of 3) (Marks-2X10=20)

1. Why Hadoop is used for Big Data Analytics? Explore any 3 services in detail used for the storage and analytics of big data.
2. Explain in detail for the designing of solutions for the cloud.
3. Elaborate the different task of data mining with example.

Q.3 Answer the following (Any 6 out of 8) (Marks-6X5=30)

1. Compare Private cloud and Public Cloud.
2. Describe the desired features for the cloud.
3. Write a short note on Cloud Infrastructure Management.
4. Compare Software as a service and Platform as a service in detail.
5. Explain the process of KDD?
6. Describe any tool used for building private cloud.
7. Explain Bayesian classification in Data Mining?
8. Elaborate Cloud deployment models.
