TILAK MAHARASHTRA VIDYAPEETH, PUNE
MASTER OF SCIENCE (M.SC) IN COMPUTER APPLICATIONS
EXAMINATION : MAY - 2024
THIRD SEMESTER
Sub: Data Analytics (MSC -304 -22)

Date : 29/05/2024	Total Marks : 60	Time: 2.00 pm To 4.30 pm

Instruction:
1. *All questions are compulsory unless and otherwise stated.*
2. *Bold figures to the right of every question are the maximum marks for that question.*
3. *Candidates are advised to attempt questions in order.*
4. *Answers written illegibly are likely to be marked zero.*
5. *Use of scientific calculators, Log tables, Mollier Charts is allowed.*
6. *Draw neat and labelled diagram wherever necessary.*

Q. 1. **Answer the following in 2-3 lines. (Any 5)** **(10)**

1. What is the Association Rule in Unsupervised learning?

2. What is Scaling in Data Mining?

3. What is the Data Proliferation step in Data Preprocessing?

4. What is Sentiment Analysis?

5. What is K –Means Clustering?

6. What is Power BI?

7. What is Naïve Bayes classifier?

Q. 2. **Answer the following in short. (Any 4)** **(20)**

1. What is Predictive Analysis?

2. Explain the Advantages of Power BI.

3. Write a note on k-nearest neighbor(K-NN)

4. Explain in Brief the Applications of RNN

5. Explain the Life cycle of Data Analytics

6. Write a short note on Tensor Flow

Q. 3. **Answer the following in detail. (Any 3)** **(30)**

1. Explain the roles and responsibilities of Data Analyst.

2. Explain the types of Objects R Programming.

3. Difference between R Programming and Python.

4. Explain in detail about Recurrent Neural Networks (RNN).

5. Difference between Machine Learning and Deep Learning