

TILAK MAHARASHTRA VIDYAPEETH, PUNE
MASTER OF SCIENCE (M.SC) IN COMPUTER APPLICATIONS
EXAMINATION : JUNE - 2025
SEMESTER - III

Sub : Data Analytics (MSC- 304-22)

Date : 10/06/2025

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 data analytics?
2. What is Power BI?
3. What is the Association Rule
4. What is Sentiment Analysis?
5. What the concept of Dendrogram
6. What is Dashboard?
7. What is Scaling in Data Mining?

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

1. Write a note on k-nearest neighbor(K-NN)
2. Explain in Brief the Applications of RNN
3. Difference between CNN & RNN.
4. Explain the concept of regression analysis and its applications in data analytics.
5. Explain the Apriori Algorithm
6. Write a note on Tensor Flow

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

1. Explain the concept of data mining and its various techniques used in data analysis.
2. Explain filters of BI.
3. Explain the Life cycle of Data Analytics
4. How does natural language processing (NLP) contribute to data analytics applications?
5. What is R studio? Explain the types of objects in R programming.

