

TILAK MAHARASHTRA VIDYAPEETH, PUNE
MASTER OF SCIENCE (M.Sc) IN COMPUTER APPLICATIONS
EXAMINATION : DECEMBER - 2025
SEMESTER - III
Sub: Data Analytics (MSC-304 -22)

Date : 24/12/2025

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 Cleaning in Data Mining?
2. What is Regression?
3. Describe a Dendrogram.
4. What is Tensor Flow?
5. Explain R Studio.
6. What is sentiment analysis?
7. What is k-nearest neighbor (K-NN) ?

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

1. Write a short note on Support Vector Machine (SVM) Algorithm
2. What is MIN-MAX Scaling?
3. Explain the K-Means Clustering.
4. What are the Applications of Natural Language Processing?
5. Difference between CNN and RNN.
6. Elaborate the Operators in R programming

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

1. Explain Data Analytics and the approaches of Data Analytics
2. Describe the concept of Market Basket Analysis with example.
3. Describe the steps for Data Preprocessing.
4. Explain the Difference between Deep Learning and Machine Learning.
5. What do you understand by Power BI? State its Advantages.
