

Total No. of Questions : 8]

[Total No. of Printed Pages : 2

Roll No

MCADD-702

M.C.A. (Integrated), VII Semester

Examination, May 2024

Data Sciences in Mining

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) Explain Linear Regression with example.
b) What is Data Wrangling process? Explain with the help of examples.
2. a) What is Data Sciences? Explain role of Data Science in Mining.
b) Explain k-NN algorithm in detail. How do we choose the factor 'k' in k-NN algorithm?
3. Describe the term feature selection. Explain Random Forest Algorithm with taking a suitable example.
4. a) Explain direct discovery of communities in a graph.
b) How to represent social networks as graphs.
5. a) What are the Ethical Issues in Data Science?
b) What is Machine learning? Explain types of machine learning.

[2]

6.
 - a) Explain direct discovery of communities in a graph.
 - b) How to represent social networks as Clustering of graphs?

7.
 - a) Discuss k-means algorithm in detail.
 - b) Discuss why Naïve Bayes algorithm is suitable for Filtering Span.

8. Write a short notes:
 - a) Mining social network
 - b) Philosophy of EDA
 - c) Data science security
 - d) Principal component analysis
