Roll No ....

MCADD-702

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

Examination, November 2023

Data Sciences in Mining

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) What is Data Science? Also explain data science process.

   b) What do you mean by Fitting Model?

2. a) Explain k-Nearest Neighbors (kNN) and k-means Algorithms.

   b) What is Data Wrangling process? Explain with the help of examples.

3. a) What is feature extraction? Explain the advantages of feature extraction.

   b) Explain Singular Value Decomposition, Principal Component Analysis.

4. a) What do you understand by Mining Social-Network Graphs? How it's done?

   b) Explain features election algorithm.

5. a) What do you understand by Data visualization? Also discuss some data visualization tools.

   b) Discuss various privacy, security, ethical issues in Data Science.

6. a) Define Statistical modeling.

   b) How to represent social networks as graphs?

7. a) What are the Skill sets needed for a Data scientists?

   b) What is Naive Bayes and why it works for Filtering Spam?

8. a) How Data Science helps in Extracting Meaning From Data?

   b) Explain in brief:
      i) Wrappers
      ii) Decision Trees
      iii) Random Forests

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