

Code No.: AD404PC

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CMR ENGINEERING COLLEGE: : HYDERABAD
UGC AUTONOMOUS

II-B.TECH-II-Semester End Examinations (Regular) - August- 2023

FUNDAMENTALS OF DATA SCIENCE

(AI&DS)

[Time: 3 Hours]

[Max. Marks: 70]

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 20 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART-A

(20 Marks)

1. a) List the benefits of the data science. [2M]
- b) Give a note on facets of data. [2M]
- c) What is the variability of qualitative data? [2M]
- d) What is relative frequency in data science? [2M]
- e) What is data handling in Python? [2M]
- f) Which Python is best for data analyst? [2M]
- g) Write the Z scores. [2M]
- h) How do you describe a normal curve? [2M]
- i) Difference between the line plots and scatter plots. [2M]
- j) Give a note on geographic data. [2M]

PART-B

(50 Marks)

2. Discuss the exploratory data analysis. [10M]
- OR**
3. Explain the presenting and building applications. [10M]
4. Describe the cumulative frequency distribution. [10M]
- OR**
5. Elaborate the frequency distributions of nominal data. [10M]
6. Explain the data manipulation with pandas. [10M]
- OR**
7. Discuss the hierarchical clustering. [10M]
8. Explain the standard error of estimate multiple regression formula. [10M]
- OR**
9. Illustrate the multiple regression equations. [10M]
10. Explain the functions of matplotlib for visualization in Python. [10M]
- OR**
11. Discuss the three dimensional plotting. [10M]
