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Roll No.

MB-404(BA3)

M. B. A. (FOURTH SEMESTER) MID SEMESTER EXAMINATION, May, 2023

DATA SCIENCE WITH PYTHON

Time: 1½ Hours

Maximum Marks: 50

- Note: (i) This question paper contains two Sections—Section A and Section B.
 - (ii) Both Sections are compulsory.
 - (iii) Answer any two sub-questions among(a), (b) & (c) in each main question ofSection A. Each sub-question carries10 marks.
 - (iv) Section B consisting of Case Study is compulsory. Section B is of 20 Marks.

Section—A

1. (a) Describe data science and its role in the current business scenario. (CO1)

- (b) Illustrate different steps of the data analysis process in detail. (CO2)
- (c) Classify various challenges of data analytics and how to fix them in detail.

(CO3)

- diagnostic, descriptive, 2. (a) Evaluate predictive, and prescriptive analytics on (CQ4) the basis of their objective.
 - (b) Discuss Hypothesis testing, also discuss different types of errors. (CO1)
 - (c) Discuss the roles and responsibilities of a (CO1) data scientist.
- importance 3. (a) Illustrate the and its techniques in visualization (CO2)analytics.
 - (b) Evaluate various data types and different plots used for visualization. (CO4)
 - (c) Differentiate between Statistical and Non-(CO3) Statistical Analysis.

Section-B

4. Case Study:

(20 Marks) (CO5)

Caselet/ Numerial

In an FMCG company sales have been recorded for the last financial year, now being as a data scientist you have to depict reports using data visualization techniques, for the following points:

- (i) Sales percentage/proportion of products sold
- (ii) Outliers in a sales dataset of products
- (iii) To depict the relationship between two products and the trends between them. Now which plot you will use and why to create reports?