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CS3352 FOUNDATIONS OF DATA SCIENCE

IMPORTANT QUESTIONS

UNIT - I INTRODUCTION

<u>2 - Mark</u>

- 1. Write the Benefits and uses of Data Science
- 2. What are facets of data?
- 3. Write about the Data Science Process.
- 4. What is Defining research?
- 5. What is Retrieving data?
- 6. Define Data Mining.
- 7. What is Data Warehousing?

<u> 13 - Mark</u>

- 1. Describe the Data Science Process
- 2. Explain Data preparation.
- 3. Describe Exploratory Data analysis.
- 4. Explain presenting findings and building applications.
- 5. State the Basic Statistical descriptions of Data.

UNIT - II DESCRIBING DATA

<u>2 - Mark</u>

- 1. What is Frequency distribution?
- 2. What are the types and uses of Frequency distributions?
- 3. What is Grouped frequency distribution.
- 4. What is ungrouped frequency distribution?
- 5. What is cumulative frequency distribution?
- 6. What is relative frequency distribution?

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<u> 13 - Mark</u>

- 1. Explain the various Types of Data.
- 2. Describe the Types of Variables.
- 3. Write about the Describing Data with Tables and Graphs.
- 4. Explain Describing Data with Averages.
- 5. Write about the Describing Variability.
- 6. Explain Normal Distributions and Standard (z) Scores.

UNIT - III DESCRIBING RELATIONSHIPS

<u>2 - Mark</u>

- 1. What is correlation?
- 2. Define Scatterplots?
- 3. What is correlation coefficient?
- 4. Define Regression.
- 5. Write the types of Regression analysis.

<u> 13 - Mark</u>

- 1. Explain correlation coefficient for quantitative data.
- 2. Describe the computational formula for correlation coefficient.
- 3. Explain least squares regression line.
- 4. State the Standard error of estimate.
- 5. Write about the interpretation of r2.
- 6. Explain multiple regression equations.

UNIT - IV PYTHON LIBRARIES FOR DATA WRANGLING

<u>2 - Mark</u>

- 1. What is Numpy in Python used for?
- 2. Write a python program create an array.
- 3. Write the output of the following numpy code.

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- 4. Define computations on arrays
- 5. What is data indexing and selection?
- 6. Write about structured arrays?
- 7. What is missing data?

<u> 13 - Mark</u>

- 1. Explain Boolean logic.
- 2. Describe fancy indexing.
- 3. Give detailed explanation for Data manipulation with Pandas.
- 4. Explain operating on data.
- 5. Write about the Hierarchical indexing.
- 6. Explain combining datasets.
- 7. Describe aggregation and groping.

UNIT - V DATA VISUALIZATION

<u> 2 - Mark</u>

- 1. What is the purpose of matplotlib?
- 2. Write the dual interface of matplotlib?
- 3. How to draw a simple line plot using matplotlib?
- 4. What functions can be used to draw the scatterplot?
- 5. Define visualizing errors.
- 6. What are Line plots?

<u>13 – Mark</u>

- 1. Differentiate Line plots & Scatter plots.
- 2. Describe Importing Matplotlib.
- 3. Give detailed explanation for density and contour plots -
- 4. Explain Histograms.
- 5. Explain the three dimensional of data visualization
- 6. Describe Geographic Data with Basemap.
- 7. Explain Visualization with Seaborn.

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