INSTITUTE OF AERONAUTICAL ENGINEERING
(Autonomous)
Dundigal-500043, Hyderabad

B.Tech IV SEMESTER END EXAMINATIONS (REGULAR) - JULY 2022
Regulation:UG20
DATA MANAGEMENT AND REPRESENTATION

Time: 3 Hours   (CSE-DATA SCIENCE)   Max Marks: **70**

Answer ALL questions in Module I and II
Answer ONE out of two questions in Modules III, IV and V
(NOTE: Provision is given to answer TWO questions from among one of the Modules III / IV / V
All Questions Carry Equal Marks
All parts of the question must be answered in one place only

MODULE – I

1. (a) Write a short note on codebook. Summarize any six important steps and questions to be considered while creating codebook. [BL: Remember| CO: 1|Marks: 7]

   (b) What is file management? Outline file organization terms and concept and objective.
   [BL: Understand| CO: 1|Marks: 7]

MODULE – II

2. (a) Give the principles of primary data. List and explain any two primary data collection method with their pros and cons. [BL: Understand| CO: 2|Marks: 7]

   (b) Write a short note on secondary data. Compare and contrast between primary data and secondary data based on their properties. [BL:Understand | CO: 2|Marks: 7]

MODULE – III

3. (a) What is missing data? List various problem faced by missing data. Describe about addressing of missing data in the analysis stage. [BL: Understand| CO: 3|Marks: 7]

   (b) List five approaches to avoid missing data. Explain different types of missing data with example.
   [BL: Understand| CO: 3|Marks: 7]

4. (a) Why is missing a data happens? Illustrate different methods to handle missing data problem during data analysis. [BL: Understand| CO: 4|Marks: 7]

   (b) What is unit nonreponse missing data? Demostrate various forms of missing data for representing a data. [BL: Understand| CO: 4|Marks: 7]

MODULE – IV

5. (a) Summarize different type of data presentation. Explain clarity principles of data presentation with example. [BL: Understand| CO: 5|Marks: 7]

   (b) What is data presentation? Discuss the importance of data presentation in data analysis process.
   [BL: Understand| CO: 5|Marks: 7]

6. (a) List and explain the key points to be considered for the data presentation. Describe how the data is to be presented and visualized. [BL: Understand| CO: 5|Marks: 7]

(b) Explain the following terms in detail with neat diagrams
   i) Graph   ii)Plot
   iii)Chart   iv) Illustration
   v)Table   [BL: Apply| CO: 5|Marks: 7]

MODULE – V

7. (a) Illustrate data representation in table with an example. Discuss advantages of data representation using table.   [BL: Understand| CO: 6|Marks: 7]

   (b) Give some examples of graphics. Construct bar chart and scatter plot for any application.
                                                                    [BL: Apply| CO: 6|Marks: 7]

8. (a) List the different representation of data in graphics. Explain the need of data representation in data analysis.   [BL: Understand| CO: 6|Marks: 7]

   (b) What is a table for data presentation? Discuss any seven differences between tables and graphics with an examples.   [BL: Remember| CO: 6|Marks: 7]

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