VR17   Reg. No: ⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚

VELAGAPUDI RAMAKRISHNA

SIDDHARTHA ENGINEERING COLLEGE
(AUTONOMOUS)

III/IV B.Tech. DEGREE EXAMINATION, AUGUST, 2021

Sixth Semester

INFORMATION TECHNOLOGY

17IT2605B Data Visualization

Time: 3hours   *Max. Marks: 70*

Part-A is compulsory

Answer One Question from each Unit of Part-B

Answer to any single question or its part shall be written at one place only

PART-A

10 x 1 = 10M

1. a.   What are the key elements of data visualization definition?

    b.   On what factors the focus of data visualization is intended?

    c.   List the eight hats of data visualization.

    d.   What is the most important features of visualization design?

    e.   What are the things to be taken care for the annotation of data presentation?

    f.   What is visualization anatomy of data representation?

    g.   What are the stresses and strains that emerge in the construction process of design solution?

    h.   Define data aggregation.

    i.   Differentiate discrete versus continuous data.

    j.   List the three basic steps involved in creating any Tableau data analysis report.

PART-B

4 x 15 = 60M

UNIT-I

2. a. Discuss about the data visualization methodology.

    8M

    b. Explain about the fundamental principles of visualization knowledge.
    7M

(or)

3. Describe the visualization's function in establishing intent.

    15M

UNIT–II

4. a. Explain about the use of color and creating the interactivity in data presentation.

    8M

    b. Discuss about choosing of the correct visualization method.

    7M

(or)

5. Explain about the following chart types:
    Bar chart, Histogram, Pie chart and Tree map   **15M**

UNIT–III

6. a. Describe how technology matters for constructing visualization?

    8M

    b. Write about statistical analysis tools.   **7M**

(or)

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7. a. Explain the importance of running final checks across all elements to get an evaluation of solution before launch.   **8M**

    b. Discuss about the post-launch evaluation process.   **7M**

UNIT–IV

8. a. Discuss about various terms and their meanings used in Tableau.

    7M

    b. Write short notes on label and tooltip marks cards.   **8M**

(or)

9. a. Describe the various ways to create a bar chart in Tableau.   **8M**

    b. Explain the procedure to make the following in Tableau:

    Line graph and data hierarchies.   **7M**

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