Reg. No: ☐☐☐☐☐☐☐☐☐☐

VELAGAPUDI RAMAKRISHNA

SIDDHARTHA ENGINEERING COLLEGE

(AUTONOMOUS)

III/IV B.Tech. DEGREE EXAMINATION, FEBRUARY, 2022

Sixth Semester

INFORMATION TECHNOLOGY

17IT2605B DATA VISUALIZATION

(CBCS)

Time: 3 hours   *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 visualization skills for the masses?

    b.   Define role of Data scientist in Visualization.

    c.   Define Tree hierarchy in Data Visualization.

    d.   What is Arrangement in Visualization Design Option?

    e.   What is Design solution in Data Visualization?

    f.   What is statistical analysis tool?

    g.   What is a Dimension?

    h.   Define Independent Axes in Tableau.

    i.   Define Pie chart.

    j.   What is Discrete Data?

PART-B

4 x 15 = 60M

UNIT-I

2. a. Explain the data visualization methodology and discuss the role of cognitive scientist in data visualization. **7M**

    b. Discuss about eight hats of data visualization and the key factors surrounding a visualization project. **8M**

(or)

3. a. Describe about the designer, initiator, cognitive scientist and computer scientist in Data Visualization. **8M**

    b. Write about Establishing intent- the visualization's tone, when the function to explore and when the function is to exhibit data. **7M**

UNIT-II

4. a. Discuss in detail about the choosing the correct visualization method with appropriate example. **8M**

    b. Explain about data visualization design is all about choices with example. **7M**

(or)

5. Briefly discuss about choosing appropriate chart types and comparing categories. **15M**

UNIT-III

6. a. Write in brief about programming languages and applications in design process. **7M**

    b. Describe about programming environments in constructing and evaluating your design solution. **8M**

(or)

7. a. Analyze about statistical analysis tools and charting productivity tools for powerful visualization capabilities. **7M**

    b. Discuss about final stage of construction process and post launch of visualization. **8M**

UNIT-IV

8. a. Interpret about view the number of records and aggregation in Tableau with example. **6M**

    b. Describe about Marks cards, encoding and level of detail with example. **9M**

(or)

9. a. Analyze about view the underlying data and connecting to data in Tableau. **8M**

    b. Discuss about five ways to create a bar chart in Tableau. **7M**

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