

22396

12425

3 Hours / 70 Marks

Seat No.

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- Instructions :**
- (1) All Questions are *compulsory*.
 - (2) Answer each next main Question on a new page.
 - (3) Illustrate your answers with neat sketches wherever necessary.
 - (4) Figures to the right indicate full marks.
 - (5) Assume suitable data, if necessary.

Marks

1. Attempt any FIVE of the following :

10

- (a) Define Explanatory analysis.
- (b) Define cognitive load.
- (c) Define Clutter.
- (d) State the power of repetition.
- (e) State the importance of animation in visualization.
- (f) Write down visualization tools.
- (g) Write down different types of charts used in visualization.

2. Attempt any THREE of the following :

12

- (a) Explain importance of context in data story telling.
- (b) Describe pre-attentive attributes in graph.
- (c) Discuss mapping data onto aesthetics.
- (d) Explain de-trending & time series decomposition.



- 3. Attempt any THREE of the following : 12**
- (a) Explain Decluttering steps.
 - (b) Describe affordances & acceptance in detail.
 - (c) Discuss coordinate system & axes.
 - (d) Explain visualizing distributions along vertical axis.
- 4. Attempt any THREE of the following : 12**
- (a) Sketch line graph and 100% stacked bar. Consider dataset of student marks of different subjects.
 - (b) Demonstrate a story on your favourite book with different parameters, also draw different types of visuals.
 - (c) Implement highly skewed distributions using example.
 - (d) Explain smoothing and showing trends in detail.
 - (e) Discuss proportions in detail.
- 5. Attempt any TWO of the following : 12**
- (a) Demonstrate who, what and how with proper example.
 - (b) Discuss Gestalt principles of visual perception.
 - (c) Construct story on use of digital devices in day-to-day life.
- 6. Attempt any TWO of the following : 12**
- (a) Implement importance of color considerations.
 - (b) Sketch and explain Quantile – Quantile plot.
 - (c) Explain visualizing many distributions at once.
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