

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(MID SEMESTER EXAMINATION MO/2024)

CLASS: BCA
BRANCH: BCA

SEMESTER : V
SESSION : MO/2024

SUBJECT: CA335 DATA VISUALIZATION

TIME: 02 Hours

FULL MARKS: 25

INSTRUCTIONS:

1. The question paper contains 5 questions each of 5 marks and total 25 marks.
 2. Attempt all questions.
 3. The missing data, if any, may be assumed suitably.
 4. Tables/Data handbook/Graph paper etc., if applicable, will be supplied to the candidates
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			CO	BL
Q.1(a)	Why visualization is important? Explain basic design principles of data visualization.	[2]	CO1	BL1
Q.1(b)	Write the importance of data visualization in data science. Explain graphical elements and properties of various elements.	[3]	CO2	BL2
Q.2(a)	Explain various types of attributes and give examples of each.	[2]	CO1	BL2
Q.2(b)	Write the importance of visualization tools. Explain any two with proper example.	[3]	CO2	BL2
Q.3(a)	Explain the do's and don'ts of charts and graphs making.	[2]	CO1	BL1
Q.3(b)	Write the design principles for appropriate visual display of charts and graphs.	[3]	CO1	BL2
Q.4(a)	Write differences between a line-graph and an area chart.	[2]	CO2	BL1
Q.4(b)	How is exploratory data visualization performed? Explain the objective of EDA.	[3]	CO2	BL3
Q.5(a)	Compare visualization on location data and time series data .Write an application area where we use these type of data.	[2]	CO2	BL3
Q.5(b)	Write the various types of categorical data. How do you visualize categorical data?	[3]	CO2	BL2

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