Set A

SOMAIYA
VIDYAVIHAR UNIVERSITY

09.12.2023 (E)

Maximum Marks:50	Semester: July 2023 –October 2023 Examination: ESE Examination	Duration:2 Hrs.
Programme code: 54 Programme: B. Tech. (Honors in Data Science & Analytics)	Class: S.Y.	Semester: III (SVU 2020)
Name of the Constituent College: K. J. Somaiya College of Engineering	Name of the department: Computer Engineering	
Course Code: 116H54C301	Name of the Course: Data Visualization	

Instructions:
1) Ensure you are copy pasting maps/ graphs in the word file answer sheet template
2) Save the word file as well as the PDF file of the answer sheet template.
3) Assume suitable data wherever necessary and justify the same

Que. No	Question	Max. Mark
Q1	Solve any **TWO**	10
i)	What do you understand by primary data and secondary data?	5
ii)	Explain advantaged and limitations of 4 point Likert scales.	5
iii)	Explain giving examples what are "mark cards" with reference to Tableau software	5
iv)	Explain exploratory and explanatory analysis.	5

Use AirLinesData.csv file shared in the folder to solve question no. 2 and 3

Que. No.	Question	Max. Marks
Q2 A	Solve	20
i)	Use any excel functions to remove blank rows, columns, remove duplicate entries from the sample data set shared Save the modified data as "cleanData.xls"	10
ii)	Use appropriate graphs/ visualization used to (Any TWO) a) Display counts of flights per Airline or Source/Destination. b) Trends in flight counts over Date_of_Journey (e.g., daily, monthly trends). c) Distribution of flight durations or total stops.	5 5

Que. No.	Question	Max. Marks
Q 3	Solve	20
i)	Prepare a report/ presentations/ story to understand flights & trends, time related analysis and routes & destination based of the Airlines dataset shared.	10
ii)	Use appropriate graphs/ visualization used to (Any TWO) a) Understand distribution of Departure and Arrival times over the day/ month b) Visualise routes for source and destination c) Analyzing frequent Additional_Info terms	5 5 5