b.1.	Differentiate exploratory and explanatory data visualization.	4	2	1	1
ii.	Discuss the relationship between the designer, reader and data.	6	2	1	1
27. a.i.	Differentiate dimensions and measures in tableau.	5	3	2	3
ii.	Write a R program to find the levels of factor of a given vector, V containing data 1, 2, 5, 10, 3, 5, 5, 2, 2, 3, NA.	5	3	2	3
b.	(OR) Create a pie chart in R with data, $X = (21, 62, 10, 53)$. Title of the chart should be "sample pie chart". Include "Raja", "Sasi", "Ashwanth", "Adharsh" as labels for the chart. Use rainbow function to colour your chart.	10	3	2	3
28. a.	Discuss the various file formats used in tableau in detail.	10	4	3	4
b.i.	(OR) What are the data types supported in Tableau? Give example for each data type.	5	4	3	4
ii.	Write short notes on different types of tableau filters.	5	4	3	4
29. a.	Discuss the various features of D3.js. in detail.	10	4	4	5
b.	(OR) Write a d3.js code snippet to load data from "data.tsv" file. On successful loading of data, it has to print data as a table in the browser console. If error occurs, then print the error message in the console.	10	4	4	5
30. a.	There should be a logic in the order in which you display the information – justify this with suitable case study.	10	3	5	12
b.i.	(OR) Write short notes on a few strategies for avoiding the spaghetti graph.	5	3	5	12
ii.	Discuss how well data visualization can be done as an alternate to pie charts.	5	3	5	12

*:					

Reg. No.						2		

B.Tech. DEGREE EXAMINATION, MAY 2022 Sixth Semester

18CSE490T – BIG DATA VISUALIZATION

Note (i) (ii	shoul	d be	han	aded				
Tim	e: 2	½ Hours		N	Max. I	Mar	ks: 7	75
		$PART - A (25 \times 1)$	= 25	Marks)	Marks	BL	СО	PO
		Answer ALL (Quest	ions				
	1.	Which of the following is considered	l as p	ros of data visualization?	1	4	1	1
		(A) It can be accessed quickly be a wider audience	(B)	It can misrepresent information				
		(C) It can be distracting	(D)	No pros in data visualization				
	2	Data can be viewelized using			1	,	1	1
	۷.	Data can be visualized using	· (D)	C1 .	1	1	1	1
		(A) Graphs	(B)	Charts				
		(C) Maps	(D)	Graphs, charts or maps				
	2	D I 11 11 27						
	3.	Doug Laney introduced the 3Vs cond			1	1	1	1
		(A) Velocity, variety, volume	` '	Velocity, veracity, volume				
		(C) Variety, veracity, volume	(D)	Velocity, variety, veracity				
		7771:1						
	4.	Which of the following is not used to			1	2	1	3
		(A) Accuracy	(B)	Relevance				
		(C) Appropriateness	(D)	Visual art				
	_							
	5.	Which of the following data is passive			1	2	1	3
		(A) Recording a sales transaction	(B)	Search term on Google				
		(C) Account creation	(D)	Experimental data				
	_	and the same of the						
	6.	Which of the following function in sheet like format?	R is	used to view the dataset in spread	1	3	2	1
		(A) disp ()	(B)	view()				
		(C) seq()		showsheet()				
	7.	Which of the following command in			1	3	2	3
		(A) printf(X)	(B)	printX				
		(C) print(X)	(D)	print[X]				
	8.	What will be the output of the follow: $> X \leftarrow 1 : 4$ > X > 2	ing R	code?	1	4	2	4
		(A) FALSE FALSE TRUE TRUE	(B)	FFTT				
		(C) 1 2 3 4	` /	2 4 6 8				
Dago 1	-54		(2)	0 0				

Page 4 of 4

25MF618CSE490T

	What will be the output of the follow >data = list("x", "y", "z", 1,2,3) >dim (data) = c (3,2) >data (A) "x" 1 "y" 2	ing R commands listed below: (B) 1 "x" 2 "y"	1 4 2	1		D3 libraries can be inserted into our (A) <script (d)="" (d)<="" <insert="" d3.js.org.="" https:="" src="https://D3.js.org." th=""><th>D3.v4.min.js> </script> D3.v4.min.js">	1	4	4	5	
	"z" 3 (C) 1 x	3 "z" (D) Error				SVG is used for two dime and interactivity. (A) An XML based table format	ensional graphics that supports animation (B) An XML based image format	1	4.	4	.5
10.	2 y 3 z In R programming, if you explicitly	want an integer, you need to specify the	1 1 2	4		(C) An animation based vector	(D) A data manager				
	suffix. (A) D (C) I	(B) R (D) L			20.	Which of the following task is not p (A) Manipulation of DOM (C) Compression of data	performed by D3? (B) Working with charts (D) Work with data	1	4	4	4
11.	Which of the following is not a Table (A) Number (whole) (C) Boolean	eau field data type? (B) String (D) Float	1 2 3	3	21.	The charts that are helpful in making (A) Bar charts (C) Pie charts	(B) Column charts (D) Both bar and column charts	1	1	5	4
12.	By default, tableau displays measure (A) Bar (C) Histogram	s over time as a graph. (B) Line (D) Scatter plots	1 2 3	3		A system that merges maps and different geographics is (A) The heat map (C) A geographical information	statistics to present data collected over (B) A geographical map on (D) A area chart	- 1	4	5	3
13.	Which type of chart is not available (A) Heat map (C) Bullet chart	in tableau? (B) Speed dial (D) Bubble chart	1 2 3	3	23.	systems What are the benefits of data visual (A) Better analysis		1	2	5	3
14.	(C) It is preceded by a #symbol in	(B) Green pill in the visualization(D) When added to the visualization,	1 3 3	12		(C) Exploring business insights	(D) Better analysis, identifying patterns, exploring business insights	3			
15.	What is an extract in tableau? (A) That contains formatting setting.	it produced district values	1 1 3	12	24.	A is a line that provide between the variables. (A) Spark line (C) Trend line	es an approximation of the relationship (B) Grid line (D) Spark	, 1	1	5	4
	well as individual fields in the (B) A saved subset of a data performance and analyze offl (C) Any field containing qualitative dimension. This includes any f (D) This refers to the tableau public	source that you can use to improve ine categorical, information as a leld with text of dates values			25.	 Which of the following statement is (A) Data visualization include the ability to absorb information quickly (C) Data visualization decrease the statement is 	he (B) Data visualization is anothe on form of visual art		1	5	4
16.	 Which of the following D3.js comm (A) d3.TopAxis() (C) d3.axisHorizon() 	and is used to create horizontal axis? (B) d3.axisTop() (D) d3.HorizonAxis()	1 3 4	5		insights and take slow decisions		e			
17		library based upon its predecessor the	1 3 4	5		$PART - B (5 \times 1)$ Answer ALI	•	Mark	se BL	CO	P
	(A) SVG (C) VizSQL	(B) Protovis (D) Drotovis			26. a.i.	List the various types of structured	and unstructured data.		2		
					ii.	Write short notes on 3v's with resp (O)		5	2	= 1	1
Page 2 of	f4	2	5MF618CSE490T		Page 3 of	4		25MF6	18CSE	490T	