

BRAINWARE UNIVERSITY

Term End Examination 2021 - 22 Programme – Bachelor of Science in Information Technology Course Name – Data Visualization Course Code - BAIC402 (Semester IV)

Time allotted : 1 Hrs.15 Min.	Full Marks : 60
[The figure in the margi	n indicates full marks.]
Grou	ıp-A
(Multiple Choice	Type Question) 1 x 60=60
Choose the correct alternative from the following	<i>:</i>
(1) Which one of the given era is represented with of time, distance, space, surveying etc?	concerned with physical measurement
a) 1600–1699	b) 1700–1799
c) 1800–1850	d) 1850–1900
(2) In era Bar graph, Line chart, histogr	rams and Scatter plots were invented.
a) 1600–1699	b) 1700–1799
c) 1800–1850	d) 1850–1900
(3) graphs are great at visualizing your	geographically data by location.
a) Line Chart	b) Map
c) Scatter plot	d) Stacked bar chart
(4) Which one of the given graphs is used to compatotal?	are data to itself rather than seeing a
a) Line Chart	b) Column graph
c) Scatter plot	d) Stacked bar chart
(5) Which of the following statement about qualita	tive data are not accurate?
 a) Qualitative data is collected from a desk, e.g. by using Google 	b) The quality of qualitative data depends to a large extent on the way it is interpreted
 Qualitative data is often collected using informal group discussions 	d) The quality of qualitative data can be affected if one person dominates the group discussion
(6) In-depth research into the reasons behind custom	mers' behaviour, definition of
a) Qualitative data	b) Focus group
c) Quantitative data	d) Non-Primitive data
(7) "Many parents feel guilty when buying ready-n	neals", example of

b) Quantitative data

a) Qualitative data

c) Primitive data	d) Non-Primitive data
(8) "Most owners of diesel cars think that their exha cars", example of	ust emissions are no worse than petrol
a) Qualitative data	b) Quantitative data
c) Primitive data	d) Non-Primitive data
(9) "More people like blue packaging than like red",	example of
a) Qualitative data	b) Quantitative data
c) Primitive data	d) Non-Primitive data
(10) Component bar charts are used when data is divi	ded into:
a) Parts	b) Groups
c) Circles	d) None of these
(11) A(n) is a graphical representation in w by a rectangle and events are represented as circle	
a) Frequency polygon	b) Histogram
c) Venn diagram	d) Tree diagram
(12) A graphical method of representing the sample p	points of a multiple-step experiment is
a) A frequency polygon	b) A histogram
c) An ogive	d) A tree diagram
(13) Which of the following is an example of compre	essed data:
a) Histogram	b) Ungrouped data
c) Frequency distribution	d) Tabulation
(14) A Histogram containing a set of	
a) Adjacent Rectangles	b) Non-Adjacent rectangles
c) Adjacent squares	d) Adjacent triangles
(15) What is Data Visualization?	
 a) It is the graphical representation of information and data 	b) It is the numerical representation of information and data
 c) It is the character representation of information and data 	d) None of these
(16) Data Visualization is also an element of the broa	der
a) data process architecture	b) data presentation architecture
c) deliver presentation architecture	d) None of these
(17) Which methods shows hierarchical data in a nest	ted format?
a) Treemaps	b) Scatter plots
c) Area charts	d) Population pyramids
(18) What are specific examples of methods to visual	ize data?
a) Area Chart	b) Bubble Cloud
c) Dot Distribution Map	d) All of these
(19) What are the benefits of data visualization?	
a) Better analysis	b) Identifying patterns
c) Exploring business insights	d) All of these
(20)is used to query and edit graphical settings	3.
a) par()	b) plot()
c) cum()	d) anova()
(21)groups values of a variable into larger bins.	

a) cut	b) stem
c) col.max(x)	d) which.max(x)
(22)helps in designing effective tables and cha	arts for data visualization.
a) PivotTable	b) Data-ink ratio
c) Scatter charts	d) Crosstabulation
(23) The charts that are helpful in making compari	son between
a) Bar charts	b) column charts
c) Pie charts	d) Both Bar & Column Charts
(24) A data visualization tool that updates in real t called	ime and gives multiple outputs is
a) a data dashboard	b) a metrics table
c) a data table	d) None of these
(25) Ais a line that provides an approximation of	of the relationship between the variables.
a) sparkline	b) gridline
c) trendline	d) none of these
(26) By default plot() function plots a	
a) Bar chart	b) Line chart
c) Pie chart	d) Horizontal Bar chart
(27) To represent a proportionate contribution of in	ndividual data we can use chart
a) Line	b) Bar
c) Pie	d) Scatter
(28) Which of the following is best suitable chart t	to show data correlation?
a) Bar	b) Histogram
c) Pie	d) Scatter
(29)chart display only one data series at a time	•
a) Line	b) Bar
c) Pie	d) Scatter
(30) Which of the following does not visualize dat	a?
a) Charts	b) Maps
c) Shapes	d) Graphs
(31) To compare data we can usechart	
a) Line	b) Bar
c) Pie	d) Scatter
(32) which of the following is incorrect regarding	Data Visualization?
a) Data Visualization is immensely usefulin data analysis	b) Visualizing large and complex data does not produce effective results
 Data Visualization is a graphical representation of data 	d) Decision makers use data visualization to understand business problems easily and build strategies.
(33) The best suitable real life example of data vis	ualization is
 a) Percent of population of by age group in india 	b) Google Analytics
c) Solar system drawing	d) Both a and b
(34) A figure/chart contains	
a) Plotting area	b) Legend
c) Axis labels	d) All of these

(35) Values which are displayed on y-axis is called _	
a) y ticks	b) x ticks
c) xy ticks	d) None of these
(36) A plot is a graph that shows th	e frequency of data along a number line.
a) line	b) box
c) histogram	d) bargraph
(37) Which are cons of data visualization?	
a) It conveys a lot of information in a small space.	b) It makes your report more visually appealing.
c) visual data is distorted or excessively used.	d) None Of these
(38) Which one of the following is most basic and co	ommonly used techniques?
a) Line charts	b) Scatter plots
c) Population pyramids	d) Area charts
(39)is used for density plots?	
a) par	b) lm
c) kde	d) C
(40) Which of the following is appropriate to graph a	a single continuous variable?
a) Waffle chart	b) Histogram
c) Bar chart	d) Pie chart
(41) Which of the following is not a recommended t	ype of graph?
a) Pie chart	b) Bar chart
c) Waffle chart	d) Density plot
(42) Which of the following are types of correlation	?
a) Positive and Negative	b) Simple, Partial and Multiple
c) Linear and Nonlinear	d) All of these
(43) Which of the following statements is true for co	orrelation analysis?
a) It is a bivariate analysis	b) It is a multivariate analysis
c) It is a univariate analysis	d) Both a and c
(44) Which of the following statements is true about sets of data?	the correlational analysis between two
a) The correlational analysis between two sets of data is known as a simple correlation	b) The correlational analysis between two sets of data is known as multiple correlation
c) The correlational analysis between two sets of data is known as partial correlation	d) None of these
(45) A common example of a dendrogram is a	
a) graph	b) chart
c) playoff tournament display	d) table
(46) Which one of the following refers to correlation	n?
 a) The causal relationship between two variables. 	b) The association between two variables.
c) The proportion of variance that two variables share.	d) A statistical method that can only be used with a correlational research design.
(47) Which one of the given options tells us about th	ne coefficient of determination?
a) The proportion of variance in X accounted for by the mean of Y.	b) The proportion of variance in Y accounted for by X.
c) The mean value of Y.	d) The mean value of X.

(48) Which of the following indicates the strongest re	elationship?
a) $r = .5$	b) $r = .09$
c) $r =6$	d) $r2 = .2$
(49) is the number of edges present in a c	complete graph having n vertices.
a) $(n*(n+1))/2$	b) (n*(n-1))/2
c) N	d) Information given is insufficient
(50) A tree diagram includes parent and	nodes.
a) Child	b) Sibling
c) Tree map	d) Cousin
(51) Tree maps are best for displaying large data sets	in which the data is
a) Unstructured	b) Random
c) Hierarchical	d) Unknown
(52) Which one of the following is the benefit of a tro	ee map?
a) It shows moving averages and trends.	b) It shows a large amount of structured data in an easy-to-read format.
c) It shows small data set.	d) It can be changed into a flowchart.
(53) In which era Bar graph, Line chart, histograms a	and Scatter plots were invented?
a) 1600–1699	b) 1700–1799
c) 1800–1850	d) 1850–1900
(54) Which one of the given options could be the post different dendrograms [SEP] using agglomerative c dataset?	ssible reason(s) for producing two lustering algorithm for the same
a) Proximity function used	b) Of data points used
c) Of variables used	d) All of these.
(55) Which one of the given options tell us about the	coefficient of determination?
a) The proportion of variance in X accounted for by the mean of Y.	b) The proportion of variance in Y accounted for by X.
c) The mean value of Y. [5]	d) The mean value of X.
(56) Which of the given method of analysis does not independent?	classify variables as dependent or
a) Regression analysis	b) Discriminant analysis
c) Analysis of variance	d) Factor analysis
(57) Factor analysis is a(n) in that the expression relationships is examined.	entire set of interdependent
a) KMO measure of sampling adequacy	b) Orthogonal procedure
c) Interdependence technique	d) Varimax procedure
(58) Factor analysis can be used in which of the following	owing circumstances?
 a) To identify underlying dimensions, or factors, that explain the correlations among a set of variables. 	b) To identify a new, smaller set of uncorrelated variables to replace the original set of correlated variables in subsequent multivariate analysis.
 c) To identify a smaller set of salient variables from a larger set for use in subsequent multivariate analysis. 	d) All of these.
(59) are simple correlations between the v	ariables and the factors.
a) Factor scores	b) Factor loadings
c) Correlation loadings	d) All of these.

(60) _____ should be used when factors in the population are likely to be strongly correlated.
a) Orthogonal rotation
b) The varimax procedure
c) Oblique rotation
d) All of these.