

- Instructions :** (1) This paper contains **Thirty Five** questions.
 (2) Each Question is of 2 Marks.
 (3) Each Question is of multiple choices.
 (4) All questions are compulsory.

NO.	QUESTION	Marks
Q.1	If I wanted to add a specific value to today's date, and have this value change from day to day, which formulas will I need? a) TODAY () and DATEADD () b) NOW () and DATEADD () c) (c) SYSDATE () and DATEADD () d) (d) CURRENT_DAYS and ADD_DAYS ()	2
Q.2	If you can effectively represent a visualization using a bar chart, should you bother using a map visualization? a) Yes, using a map visualization can provide additional geographical control and insights and hence should every time geographical data is available. b) No, map are fancy to look at but serve no real purpose. A bar chart is sufficient for representing the data accuracy. c) It really depends on the data set and the stakeholder. 90% of the time, bar charts can solve your problem unless maps provide additional value. Only them should it be considered. d) No, a map visualization adds unnecessary complexity to the visualization with no value-added.	2
Q.3	To connect Tableau to a CSV data source what type of connection should you use? a) Excel b) Text File c) Access d) Statistical File	2

- Q.4** What are the two main groups that all fields are broken up into in Tableau? **2**
- a) Items and Regions
 - b) Labels and Values
 - c) Details and Quantities
 - d) Dimensions and Measures
- Q.5** What are calculated fields in Tableau? **2**
- a) There is only one calculated field in Tableau: "Number of Records"
 - b) Any numeric field is a calculated field because it can be used in a calculation
 - c) These are custom variables that you create from field provided in the Data
 - d) Calculated fields have to be created in Excel and then imported into Tableau
- Q.6** How many fields can you add to be shown in the label? **2**
- a) Maximum 1
 - b) Maximum 2
 - c) Maximum 3
 - d) No limit
- Q.7** What is the main thing you should take into account when setting the colours for your chart in Tableau? **2**
- a) Trick question! Colours are automatically set by Tableau and cannot be changed
 - b) The number of objects on your chart. You should use as many colors as possible. Ideally every object should have a unique color.
 - c) The main thing to take into account is the end user/viewer. Colors should assist them in seeing the insights your chart is portraying.
 - d) Colors don't matter in Data Science visualization. Random or default colors should be fine.
- Q.8** Which of these is a valid reason to use a Data Extract over a Live Connection to the Dataset in Tableau? **2**
- a) Extracts always take up less space than the data
 - b) Extracting data automatically fixes any data errors
 - c) Your Data in Excel therefore you need to create an extract to work in Tableau
 - d) Your data is constantly being updated and you want to work with static file when building your visualization
- Q.9** What is the difference between the Blue Month() and the Green Month() in Tableau? **2**
- a) Blue is a dimension and Green is a measure; Blue ignores higher periods such as year and treats month as a category- just like Gender; Green creates a proper timeline
 - b) Blue is a measure and Green is a dimension; Blue ignores higher periods such as year and treats month as a category – just like Gender; Green creates a proper timeline
 - c) Blue is a dimension and Green is a measure; Green ignores higher

periods such as year and treats month as a category – just like Gender; Blue creates a proper timeline

- d) Blue is a Measure and Green is a dimension; Green ignores higher periods such as year and treats month as a category – just like Gender; Blue creates a proper timeline

- Q.10** Which of these explains the conceptual difference between a line chart and an area chart? **2**
- a) In a line chart lines cannot cross, but they can cross in an area chart
 - b) An area chart stacks up values of different categories on top of each other, whereas a line chart visualizes them separately
 - c) An area chart always has more colors than a line chart
 - d) You can use color highlighting on an area chart, but not on a line chart
- Q.11** When would you need to create Hierarchies in Tableau? **2**
- a) When there are hierarchies present in the Dimensions and Tableau needs to know about them for your visualization
 - b) When the measures are not correctly ordered in your Dataset
 - c) Always(!) when working with a Map. In other words, you CANNOT build a map if you don't have a hierarchy
 - d) Hierarchies can only be present in the Data source; this is NOT a feature available in tableau
- Q.12** Which of the following are different ways you can select the worksheets to which you want to apply a filter? **2**
- a) 'All using this data'
 - b) 'Selected Worksheets...'
 - c) 'Only this Worksheet'
 - d) All the above
- Q.13** Which of these is a type of allowable values for any parameter? **2**
- a) 'All'
 - b) 'List'
 - c) 'Range'
 - d) All the above
- Q.14** What is the main visual element of a treemap called? **2**
- a) Box
 - b) Tree
 - c) Branch
 - d) Eco-Leaf
- Q.15** I want to automatically sort the YEAR(Date) pill, so that the largest is first and the smallest is last. What type of sort do I want? **2**
- a) Short by: Alphabetic
 - b) Short by: Date
 - c) Short by: Manual
 - d) Short by: Numerical

- Q.16** I have created a group of all of the New England states. I want to create another group of all of the other states. What is the easiest way to create this other group? 2
- a) Select all the other states, and click “Group”
 - b) Click on “Include ‘Reminder’”
 - c) Click on “Include ‘Other’”
 - d) You don’t need to – this is automatic
- Q.17** I want to create something that contains the Top 10 Cities, based on the Sales Volume. I want it to be automatically calculated, so that if the data changes, the Top 10 automatically changes. What can I create? 2
- a) A group (but not a set)
 - b) A set (but not a group)
 - c) Either a set or a group
 - d) You cannot do this automatically with either a set or a group
- Q.18** I am creating a pie chart. What additional mark is available when you create a pie chart which is not available with a bar chart. 2
- a) Size
 - b) Tooltip
 - c) Angle
 - d) Detail
- Q.19** I want to automatically document my visualization. I want headings such as Description, Marks, Shelves, Dimensions, Measures and Data Source Details. How do I do this? 2
- a) Go to the worksheet – Show Title
 - b) Go to the worksheet – Describe sheet
 - c) Go to the worksheet – Show caption
 - d) Go to the worksheet – Show summary
- Q.20** In addition to a measure on the y-axis, what does a histogram use on the x-axis? 2
- a) Group
 - b) Bin
 - c) Set
 - d) Tooltip
- Q.21** I want to create an Average Line. I go into the Analytics pane and drag Average Line into the visualization. Which of these is NOT an option which is displayed? 2
- a) Table
 - b) Pane
 - c) Cell
 - d) Axis
- Q.22** Where can we apply global filters? 2
- a) Dashboards
 - b) All the given option
 - c) Worksheet
 - d) Extract and Live

Q.23 Steps to create a filter so that ,it's applied for all worksheets in the workbook that use the current primary data source, are: **2**

- On the Filters shelf, right-click the Region field and select Apply to Worksheets > All Using This Data Source
- On the Filters shelf, right-click the field and select Apply to Worksheets > Selected Worksheets.
- On the Filters shelf, right-click the field and select Apply to Worksheets > Only this Worksheet.
- On the Filters shelf, right-click the field and select Apply to Worksheets > All Using Related Data Sources.

Q.24 You have a dataset that contains a list of gym equipment and the exercises that use them . Which formula should you use to get the number of items in the equipment list? **2**

Equipment	Exercise
Barbell	Bench Press
Dumbbell	Bicep Curl
Jump Rope	Double-Under
Barbell	Front Squat
Dumbbell	Overhead Press
.....

- MAX ([Equipment])
- COUNT ([Equipment])
- COUNTD ([Equipment])
- ATTR ([Equipment])

Q.25 Which of the fields is a number field? **2**



- First (From left)
- First (From right)
- Second (From Left)
- Second (From Right)

Q.26 I create a bar chart, and in the Marks card there are 5 buttons. I create a line chart, and in the Marks card there are 6 buttons. What is the additional button which you can use in the line chart, but not in the bar chart? **2**

- Tooltip
- Color
- Path
- Thickness

Q.27 What is ABS(-3) and SIGN(-3)? **2**

- ABS(-3) is -1 and SIGN(-3) is 3
- ABS(-3) is 3 and SIGN(-3) is -1
- ABS(-3) is -3 and SIGN(-3) is 1
- ABS(-3) is 1 and SIGN(-3) is 3

- Q.28** Which of the following is true about hierarchies? 2
- a) You can have a maximum of two fields in a hierarchy.
 - b) Hierarchies can only be built using dimensions
 - c) Hierarchies can be built using dimensions and measures.
 - d) Hierarchies can only be used for date fields
- Q.29** Which one of the following is not a type of join in Tableau? 2
- a) Inner join
 - b) Left join
 - c) Right join
 - d) Top join
- Q.30** Which one of the following is not a valid filter type in Tableau? 2
- a) Dimension filter
 - b) Measure filter
 - c) Table filter
 - d) Context filter
- Q.31** What is a dual axis chart in Tableau? 2
- a) A chart that combines two different chart types on the same axis.
 - b) A chart that displays values as bars.
 - c) A type of data source that is optimized for live connections to data.
 - d) A type of join used to combine data from multiple tables
- Q.32** What is a cross-tab table in Tableau? 2
- a) A table that shows the relationships between different data sets.
 - b) A type of chart that displays data in a grid format, with rows and columns.
 - c) A type of data connection that allows for real-time updates to the data.
 - d) A type of aggregation function used to summarize data.
- Q.33** What is a heat map in Tableau? 2
- a) A type of chart that displays values as bars.
 - b) A type of chart that displays data as a series of points.
 - c) A type of chart that displays data as a color gradient.
 - d) A type of chart that displays data as a line graph.
- Q.34** What is the purpose of the marks card in Tableau? 2
- a) To adjust the formatting of a chart or graph.
 - b) To display a list of available charts and graphs.
 - c) To apply filters to a chart or graph.
 - d) To define the visual encoding of a chart or graph.
- Q.35** Which of the following is NOT a Tableau Field data type? 2
- a) String
 - b) Number (whole)
 - c) Boolean
 - d) Float