

## MCQ : UNIT-5 Data Visualization using dataframe

Que.1)\_\_\_\_\_plot (chart) is useful for showing correlations and groupings in data.

- A. Scatter
  - B. Histogram
  - C. bar
  - D. Pie
- Ans.A

Que.2)Matplotlib.pyplot() is a plotting library used for\_\_\_\_\_graphics

- A. 1D
  - B. 2D
  - C. 3D
  - D. Both b & c
- Ans.B

Que.3) Legend's by default loc is\_\_\_\_\_

- A. Upper Right
  - B. Lower Right
  - C. Lower Left
  - D. "best"(Upper left)
- Ans.D

Que.4) In subplot function 3 rd parameter is used for \_\_\_\_\_

- A. Number of rows
  - B. Number of columns
  - C. Both a & b
  - D. index
- Ans.D

Que.5)\_\_\_\_\_plot (chart) is useful for comparison between discrete as well as continuous data distribution.

- A. Scatter
  - B. bar
  - C. Histogram
  - D. Pie
- Ans.C

Que.6)\_\_\_\_\_plot(chart) can only display one series of data.

- A. a)Scatter b) c) d)
  - B. Histogram
  - C. bar
  - D. Pie
- Ans.D

Que.7)To represent the data in pictorial form that is known as

- A. Data visualization

- B. Data abstraction
  - C. Data inheritance
  - D. None of the above
- Ans.A

Que.8) Which library is used for data visualization

- A. Matplotlib
  - B. Pandas
  - C. Numpy
  - D. None of the above
- Ans.A

Que.9) Which function is used to describe the graph area

- A. Plot
  - B. Hist
  - C. Legend
  - D. Subplots
- Ans.C

Que.10) Which graph is used to represent the group of data?

- A. Line chart
  - B. Pie chart
  - C. Histogram chart
  - D. Bar chart
- Ans.C

Que.11) Which function is used to save the graph figure

- A. Save
  - B. Save as
  - C. Savefig
  - D. None of the above
- Ans.C

Que.12) Which of the following library is imported for creating chart in python

- A. Data visualization
  - B. Visual Data
  - C. Matplotlib
  - D. None of the above
- Ans.A

Que.13) Which function of the pyplot module is used to create a figure/chart/plot.

- A. Show()
  - B. Plotting()
  - C. Plot()
  - D. Plots()
- Ans.C

Que.14) Which function is used to display figure/chart.

- A. Showing()
- B. Show()
- C. Display ()
- D. Screen()

Ans.B

Que.15)By default plot() function plots a \_\_\_\_\_

- A. Histogram
- B. Bar graph
- C. Pie chart
- D. Line chart

Ans.D

Que.16)Which of the following function is used to save the figure/chart?

- A. Save()
- B. Savefigure()
- C. Savefig()
- D. None of the above

Ans.C

Que.17)Which attribute of plot( ) function help to specify the type of chart?

- A. Type
- B. Types
- C. Kind
- D. Kinds

Ans.C

Que.18)Statement to plot a line chart for data stored in a DataFrame 'df' is \_\_\_\_

- A. df.plot(line)
- B. plot(df, line)
- C. df.plot(kind = "line")
- D. None of the above

Ans.C

Que.19)Which of the following pyplot function is used to plot bar graph.

- A. Bar()
- B. Bargraph()
- C. Barchart()
- D. oval()

Ans.A

Que.20)What is the use of faceColor attribute of the legend() function?

- A. It is used for the legend's background color
- B. It is used for the legend's foreground color
- C. It is used for the legend's background patch edge
- D. It is used for the legend's foreground patch edge

Ans.A

Que.21) Which function is used to draw multiple plots in one figure

- A. figure()
- B. plot()
- C. Subplot()
- D. Scatter()

Ans.C

Que.22) Which function is used to make title for the graph?

- A. label()
- B. title()
- C. show()
- D. Save()

Ans.B

Que.23) Which attribute of hist function is used to create type of histogram?

- A. histtype
- B. type
- C. hist\_type
- D. bottom

Ans.A

Que.24) What is EDA?

- A. Exploratory Data Analysis
- B. Explore Data Analysis
- C. Exoratory Details Analysis
- D. Exoratory Database Analysis

Ans.A

Que.25) Which function is used to save a figure created with matplotlib?

- A. fig()
- B. savefig()
- C. Save()
- D. Saveas()

Ans.B

Que.26) What is the full form of CSV

- A. Comman separated value
- B. Comma Seprated Value
- C. Common Species Value
- D. Common Special Value

Ans.B

Que.27) Whqt is the use of Central Tendency?

- A. Characters data are in large stored in database
- B. Bollen data are in stored in database
- C. Quantitative ( Numeric ) data are store in large number stored in database
- D. String datq are in storrd in database

Ans.C

Que.28)IQR Full from

- A. Internal Quality Range
- B. Inter quality range
- C. Inter Quartile Range
- D. Inter Quality Row

Ans.C

Que.29)Which function of matplotlib can be used to create a line chart?

- A. line
- B. plot
- C. bar
- D. graph

Ans.B

Que.30)Which graph should be used if we want to show distribution of elements?

- A. Histogram
- B. Pie
- C. Bar
- D. Scatter

Ans.A

Que.31)Which of the following library in Python is used for plotting graphs and visualization.

- A. pandas
- B. Numpy
- C. matplotlib
- D. non of these

Ans.C

Que.32)The part of chart which identifies different sets of data plotted on plot by using different colours is called:

- A. Title
- B. Legends
- C. Axes
- D. Limitation

Ans.B

Que.33)Which of the following keyword argument is used to show triangle markers on plot?

- A. ^
- B. t
- C. o
- D. s

Ans.A

Que.34)Which chart is often used to visualize a trend in data over intervals of time?

- A. Line
- B. Bar

C. Pie

D. Scatter

Ans.A

Que.35) Which graph should be used if we want to show distribution of elements?

A. Pie

B. Scatter

C. Histogram

D. Bar

Ans.C

Que.36) Which object is used to draw Plotting Data ?

A. subplot

B. figure

C. image

D. None of the above

Ans.B

Que.37) What 'g--' value means as parameter in plot function?

A. Dotted Line Green Color

B. Dashed Line Green Color

C. Dotted Line Gray Color

D. Dashed Line Gray Color

Ans.B

Que.38) Which Indicator is used if I want Filled + sign as marker ?

A. +

B. F+

C. P

D. ++

Ans.C

Que.39) Linspace is used to generate numbers within given range in array

A. True

B. False

C. nan

D. nan

Ans.A

Que.40) Generally \_\_\_\_\_ plots are used to represent the relationship between two variables.

A. a. Line plot

B. b. Bar plot

C. c. Histogram

D. d. Scatter plot

Ans.D

Que.41) Which of the code will generate scatter plot of marker with different sizes

A. a. size = [100,500,100,500,100,500,100,500] plt.scatter(x,y,s=size)

- B. b. `plt.scatter(x,y,s=5)`
- C. c. `plt.scatter(x,y)`
- D. d. All of the above

Ans.A

Que.42)The default data structure of the pandas is

- A. a. Array
- B. b. Series
- C. c. DataFrame
- D. d. List

Ans.C

Que.43)To generate different charts with a single `plot()` function which attribute is

- A. a. Graph
- B. b. Subplot
- C. c. kind
- D. d. describe

Ans.C

Que.44)What is Data Visualization?

- A. It is a graphical representation of information and data
- B. It is a character representation of information and data
- C. It is a numerical representation of information and data
- D. None of the above

Ans.A

Que.45)Which is a plotting library used for 2D graphics in python programming language?

- A. `matplotlib.pyplot`
- B. `matplotlib.numpy`
- C. `matplotlib.pip`
- D. `matplotlib.plt`

Ans.A

Que.46)Which function allows you to set the x and y limits with a single call?

- A. `plt.axis()`
- B. `plt.legend()`
- C. `plt.title()`
- D. `plt.fig()`

Ans.A

Que.47)Which function is used to set axis labels?

- A. `xlabel()`
- B. `ylabel()`
- C. Both of the above
- D. None of the above

Ans.C

Que.48)Which function is used for visualizing data points in two dimensions?

- A. subplot()
- B. legend()
- C. scatter()
- D. plot()

Ans.C

Que.49)What is use of edgecolor attribute of the legend() function?

- A. It is used for the legend's background color
- B. It is used for the legend's background patch edge color
- C. It is used for the legend's foreground color
- D. It is used for the legend's foreground patch foreground color

Ans.B

Que.50)To change the width of bars in bar chart, which of the following argument with a float value is used?

- A. thick
- B. thickness
- C. width
- D. barwidth

Ans.C

Que.51)What are the mandatory parameters to plot data on chart for plot() method?

- A. x and y
- B. color
- C. others
- D. width

Ans.A

Que.52)How do we create x and y axis in a simple plot?

- A. Using subplot ()
- B. Using pandas
- C. Using linspace() method of numpy
- D. Using linearspace()

Ans.C

Que.53)What is the syntax to import matplotlib in python file to create simple plot?

- A. Import matplotlib
- B. Import matplotlib.pyplot as plt
- C. Import pyplot as plt
- D. None of the above

Ans.B

Que.54)which library is the most used visualization library in python?

- A. visual
- B. matplotlib
- C. matplotlib
- D. matlab

Ans.C



Que.55) Which of the following is / are the function that support & enhance plot?

- A. Range()
- B. Subplot ()
- C. Legend()
- D. All of the above

Ans.D

Que.56) which function of matplotlib can be used to create a line chart?

- A. line
- B. plot
- C. graph
- D. bar

Ans.B

Que.57) To draw multiple plots in one figure, which function do we use?

- A. Subplot()
- B. Legend
- C. Len()
- D. None of the above

Ans.A

Que.58) Which is a python package used for 2D graphics?

- A. matplotlib.pyplot
- B. matplotlib.pip
- C. matplotlib.numpy
- D. matplotlib.plt

Ans.A

Que.59) What does the following python code define? `Plt.subplot(1,2,1)`

- A. The figure has 1 row, 2 columns & the graph has index 1
- B. The figure has 1 column, 2 rows & the graph has index 1
- C. The figure has 1 index, 2 rows & the graph has column 1
- D. Error

Ans.A

Que.60) Elements of a graph are described by an area which is called as \_\_\_\_\_

- A. Range()
- B. Legend ()
- C. Len()
- D. Show()

Ans.B

Que.61) How to set a title in scatter chart?

- A. Using title() function
- B. Using scatter () function
- C. Using show() function
- D. None of the above

Ans.A

Que.62)By default plot() function plots a \_\_\_\_\_

- A. Histogram
- B. Bar graph
- C. Line chart
- D. Pie chart

Ans.C

Que.63)To plot x versus y, we can write \_\_\_\_\_ #plt is an alias for matplotlib.pyplot

- A. plt.plot(y, x)
- B. plt.plot(x)
- C. plt.plot(x,y)
- D. None of the above

Ans.C

Que.64)\_\_\_\_\_ Function is used to generate a basic graph.

- A. draw()
- B. generate()
- C. plot()
- D. subplot()

Ans.C

Que.65)Which of the following function is used to draw chart?

- A. plot()
- B. chart()
- C. graph()
- D. figure()

Ans.A

Que.66)Which library is used for data visualization?

- A. pandas
- B. numpy
- C. matplotlib
- D. csv

Ans.C

Que.67)\_\_\_\_\_ function is used to display figure/chart.

- A. showing( )
- B. show( )
- C. display( )
- D. screen( )

Ans.B

Que.68)Which parameter of PLOT() is used to change the symbol of point?

- A. symbol
- B. marker
- C. linestyle

D. label

Ans.B

Que.69) A figure/chart contains \_\_\_\_

A. Plotting area

B. Legend

C. Axis labels

D. All of the above

Ans.D

Que.70) \_\_\_\_ is used to give label to X axis.

A. title()

B. ylabel()

C. xlabel()

D. x\_axis()

Ans.C

Que.71) \_\_\_\_\_ function is used to set title for X-axis.

A. xttitle()

B. title()

C. setxttitle()

D. xlabel()

Ans.D

Que.72) \_\_\_\_ function allows user to plot multiple graphs on single figure.

A. plot()

B. subplot()

C. part()

D. figure()

Ans.B

Que.73) \_\_\_\_\_ type of graph is used to represent distribution of data.

A. Line Graph

B. Histogram Chart

C. Bar Graph

D. Pie Chart

Ans.B

Que.74) subplot(2,2,3) displays the graph at \_\_\_\_.

A. first row first column

B. first row second column

C. second row first column

D. second row second column

Ans.C

Que.75) \_\_\_\_\_ attribute of the pie chart is used to express the segment of a chart as percentage.

A. Labels

B. perc

C. explode

D. autopct

Ans.D

Que.76) Plot() function plots the graph in form of \_\_\_\_.

A. Line

B. Scatter points

C. Bar

D. None of above

Ans.A

Que.77) \_\_\_\_ displays the interval verses Frequency graph.

A. Bar chart

B. Line chart

C. Scatter chart

D. Histogram

Ans.D

Que.78) Which of the following statements is used to create a histogram of 'step' type with 20 bins?

A. `plt.hist(x, bins = 20, histtype = "barstacked")`

B. `plt.hist(x, bins = 20)`

C. `plt.hist(x, bins = 20, histtype = "step")`

D. `plt.hist(x, bins = 20, histtype = hist())`

Ans.C

Que.79) 4. Which of the following methods should be employed in the code to display a chart?

A. `plot()`

B. `execute()`

C. `display()`

D. `show()`

Ans.A

Que.80) Which of the following is not a valid plotting function of pyplot ?

A. `plot()`

B. `line()`

C. `pie()`

D. `bar()`

Ans.B

Que.81) Which is a python package used for 2D graphics?

A. `matplotlib.pyplot`

B. `matplotlib.pip`

C. `matplotlib.numpy`

D. `matplotlib.plt`

Ans.A

Que.82) Identify the package manager for Python packages, or modules.

A. Matplotlib

- B. PIP
  - C. plt.show()
  - D. python package
- Ans.B

Que.83)A \_\_\_\_ is a summarisation tool for discrete or continuous data.

- A. quartile
  - B. histogram
  - C. mean
  - D. median
- Ans.B

Que.84)Which key is used to run the module?

- A. F6
  - B. F3
  - C. F4
  - D. F5
- Ans.D

Que.85)Data visualization helps to

- A. Understand data easily
  - B. Take a decisions
  - C. Improve the past performance
  - D. All
- Ans.D

Que.86)values along the axis can be restricted using \_\_\_\_ function

- A. range()
  - B. subplot()
  - C. legend()
  - D. len()
- Ans.A

Que.87)which function of matplotlib can be used to create a line chart?

- A. line
  - B. plot
  - C. graph
  - D. bar
- Ans.B

Que.88)recommended way to load matplotlib library is

- A. import matplotlib.pyplot as plt
  - B. import matplotlib.pyplot
  - C. import matplotlib as plt
  - D. import matplotlib
- Ans.A

Que.89)\_\_\_\_\_ chart expresses distribution of continous data

- A. Histogram chart
- B. Bar Chart
- C. Line Chart
- D. Scatter chart

Ans.A

Que.90)Dataframe in Pandas is:

- A. 2 Dimensional Array
- B. 1 Dimensional Array
- C. 3 dimensional Array
- D. List

Ans.A

Que.91)We can analyze data in Pandas with

- A. Series
- B. DataFrame
- C. Both of the above
- D. None of the above

Ans.C

Que.92)For Representation of discrete data \_\_\_\_\_ charts are used.

- A. Bar chart
- B. Line chart
- C. scatter chart
- D. histogram chart

Ans.A

Que.93)Which of the following library in Python is used for plotting graphs and visualization

- A. Matplotlib
- B. NumPy
- C. Pandas
- D. A

Ans.None of the above

Que.94)This chart depicts proportion and share of segment in terms of percentage.

- A. Pie Chart
- B. Bar Chart
- C. Scatter chart
- D. Line Chart

Ans.A

Que.95)Which of the following command is used to install pandas?

- A. install pandas
- B. pip install pandas
- C. pip pandas
- D. None of the above

Ans.B

Que.96) Data visualization is performed in terms of segmentation of total values in which type of chart.

- A. Pie chart
- B. Bar Chart
- C. Line Chart
- D. Scatter Chart

Ans.A

Que.97) Which of the following library to be imported for creating chart in python?

- A. Pandas
- B. Matplotlib
- C. Numpy
- D. Sqlite3

Ans.B

Que.98) A python chart contains \_\_\_\_

- A. Plotting area
- B. Axis labels
- C. Legend
- D. All of the above

Ans.D

Que.99) By default plot() function plots a \_\_\_\_\_

- A. Pie chart
- B. Bar chart
- C. Line chart
- D. Histogram chart

Ans.C

Que.100) Which of the following pyplot function is used to plot histogram.

- A. Hist()
- B. Histo()
- C. Histograms()
- D. All of the above

Ans.A

Que.101) By default plot() function will plot \_\_\_\_ chart.

- A. Histogram
- B. Scatter
- C. Line
- D. Bar

Ans.C

Que.102) Which of the following keyword argument is used to show triangle markers on plot?

- A. t
- B. o
- C. s
- D. ^

Ans.D

Que.103)Which Statement is used to plot a line chart for data stored in a DataFrame 'df' is \_\_\_\_

- A. df.plot(line)
- B. df.plot(df, line)
- C. df.plot(kind = "line")
- D. None from above

Ans.C

Que.104)If arr is a 2D ndarray, then which of the following statement compute mean across the columns?

- A. arr.mean(axis=1)
- B. arr.mean(axis=0)
- C. arr.mean(0)
- D. arr.mean(axis=2)

Ans.A

Que.105)The argument bins is associated with which of the following type of chart?

- A. line
- B. bar
- C. histogram
- D. pie

Ans.C

Que.106)Which of the following statement will plot the data with black color, solid circle marker and -- (double dash) as line style?

- A. plt.plot(numpy.random.randn(30), 'ko--')
- B. plt.plot(numpy.random.randn(30), '--ko')
- C. plt.plot(numpy.random.randn(30), '--ok')
- D. plt.plot(numpy.random.randn(30), 'k--o')

Ans.A