***Unit-4 MCQ***

***Data Visualization***

## Q1. Which of the following libraries to be imported for creating charts in python?

a. Matplotlib

b. Pandas

c. Math

d. Random

**Ans. a. Matplotlib**

## Q2. ***\_\_\_\_\_\_\_\_\_\_\_\_\_*** function of the pyplot module is used to create a figure/chart/plot.

a. show( )

b. ploting( )

c. plot( )

d. plots( )

**Ans. c. plot( )**

## Q3. A figure/chart contains ***\_\_\_\_\_\_***

a. Plotting area

b. Legend

c. Axis labels

d. All of the above

**Ans. d. All of the above**

## Q4. 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. plt.plot(x,y)**

## Q5. Values which are displayed on y-axis is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***\_***

a. y ticks

b. x ticks

c. xy ticks

d. None of the above

**Ans. a. y ticks**

## Q6. plot(a, b) is provided with two parameters, which indicates values for ***\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***

a. x-axis and y-axis, respectively

b. y-axis and x-axis, respectively

c. x-axis only

d. None of the above

**Ans. a. x-axis and y-axis, respectively**

## Q7. By default plot() function plots a ***\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***

a. Histogram

b. Bar graph

c. Line chart

d. Pie chart

**Ans. c. Line chart**

## Q8. Name of the figure is passed to the ***\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*** function as a parameter.

a. plot( )

b. show( )

c. savefig( )

d. None of the above

**Ans. c. savefig( )**

## Q9. Which of the following pyplot function is used to plot pie charts.

a. pie( )

b. piechart( )

c. circle( )

d. oval( )

**Ans. a. pie( )**

## Q10. Which of the following pyplot function is used to set the label for the x-axis.

a. xlabeled( )

b. xlabel( )

c. x\_axis\_label( )

d. None of the above

**Ans. b. xlabel( )**

## Q11. Which of the following pyplot function is used to set the values on the x-axis.

a. xticks( )

b. xlabel( )

c. xvalues( )

d. None of the above

**Ans. a. xticks( )**

## Q12. To show the grid lines in plot, we can write \_\_\_\_\_\_\_\_\_\_\_\_\_\_***\_*** #plt is an alias of matplotlib.pyplot

a. plt.grid( )

b. plt.grid(True)

c. Both of the above

d. None of the above

**Ans. c. Both of the above**

## Q13. A ***\_***\_\_\_\_\_\_\_\_\_\_ is any symbol that represents a data value in a line chart.

a. marker

b. mark

c. marks

d. None of the above

**Ans. a. marker**

## Q14. Write a statement to display “Amount” as x-axis label. (consider plt as an alias name of matplotlib.pyplot)

a. plt.label(“Amount”)

b. plt.xlabel(“Amount”)

c. plt.xlabel(Amount)

d. None of the above

**Ans. b. plt.xlabel(“Amount”)**

## Q15. Write a statement to “use \* as marker” . (consider plt as an alias name of matplotlib.pyplot)

a. plt.plot(h, w, marker = “\*”) #h and w are data representing x axis and y axis

b. plt.plot(h, w, mark = “\*”) #h and w are data representing x axis and y axis

c. plt.marker(“\*”)

d. None of the above

**Ans. a. plt.plot(h, w, marker = “\*”) #h and w are data representing x axis and y axis**

## Q16. If we have a Series type object (let’s say ‘s1’ ) we can call the plot method by writing ***\_\_\_\_\_\_\_\_\_\_\_\_\_***

a. s1.plot( )

b. plot(s1)

c. s1.plot(s1)

d. None of the above

**Ans. a. s1.plot( )**

## Q17. Which attribute of plot( ) function help to specify the type of chart?

a. type

b. kind

c. kinds

d. types

**Ans. b. kind**

## Q18. 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. df.plot(kind = “line”)**

## Q19. Attribute/parameter to set marker size is ***\_\_\_\_\_***

a. marker size

b. sizeofmarker

c. markersize

d. None of the above

**Ans. c. markersize**

## Q20. A ***\_\_\_\_\_\_\_\_\_\_\_\_\_*** plot is a graph that shows the frequency of data along a number line.

a. line

b. box

c. histogram

d. bargraph

**Ans. a. line**

## Q21. Which attribute of plot( ) function is used to set the style of line in line plot?

a. linestyle

b. styleline

c. styleofline

d. none of the above

**Ans. a. linestyle**

## Q22. Which attribute of plot( ) function is used to set the different color of bars in bar chart?

a. color

b. barcolor

c. colorbar

d. none of the above

**Ans. a. color**

## Q23. Which parameter of plot( ) function help to set the values of bins in Histogram?

a. bin

b. bins

c. binvalue

d. none of the above

**Ans. b. bins**

## Q24. Fill in the blank in the given code, if we want to plot a line chart for values of list ‘a’ vs values of list ‘b’.

**a = [1, 2, 3, 4, 5]**

**b = [10, 20, 30, 40, 50]**

**import matplotlib.pyplot as plt**

**plt.plot \_\_\_\_\_\_\_\_\_\_**

a. (a, b)

b. (b, a)

c. [a, b]

d. None of the above

**Ans. a. (a, b)**

## Q25. The following statement will create line plot of \_\_\_\_\_\_\_\_\_***\_*** colour.

**pl.plot(a, b, ‘g’) #a and b are list**

a. black

b. yellow

c. green

d. magenta

**Ans. c. green**