

# QB365 Question Bank Software Study Materials

## Data Visualization Using Pyplot: Line Chart, Pie Chart and Bar Chart 50 Important 1 Marks Questions With Answers (Book Back and Creative)

12th Standard

Computer Science

Total Marks : 50

### Multiple Choice Question

50 x 1 = 50

1) Which is a python package used for 2D graphics?

- (a) **matplotlib.pyplot** (b) matplotlib.pip (c) matplotlib.numpy (d) matplotlib.plt

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

- (a) Matplotlib (b) **PIP** (c) plt.show() (d) python package

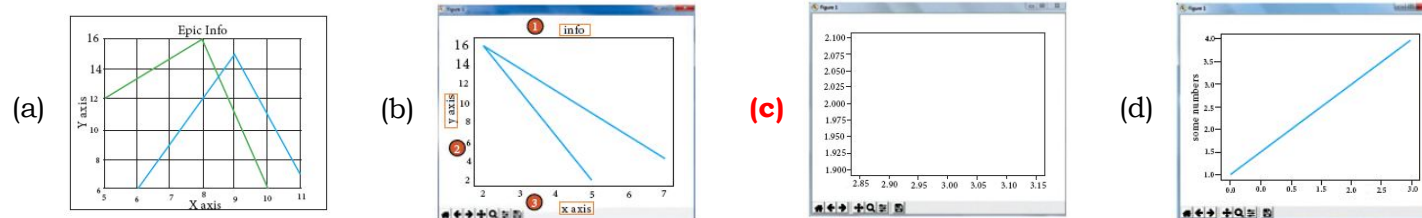
3) Read the code:

a. import matplotlib.pyplot as plt

b. plt.plot(3,2)

c. plt.show()

Identify the output for the above coding



4) Which key is used to run the module?

- (a) F6 (b) F4 (c) F3 (d) **F5**

5) Identify the right type of chart using the following hints.

Hint 1: This chart is often used to visualize a trend in data over intervals of time.

Hint 2: The line in this type of chart is often drawn chronologically.

- (a) **Line chart** (b) Bar chart (c) Pie chart (d) Scatter plot

6) Read the statements given below. Identify the right option from the following for pie chart.

Statement A: To make a pie chart with Matplotlib, we can use the plt.pie() function.

Statement B: The autopct parameter allows us to display the percentage value using the Python string formatting.

- (a) Statement A is correct (b) Statement B is correct (c) **Both the statements are correct**  
(d) Both the statements are wrong

7) Which of the following feature is used to represent data and information graphically?

- (a) Data List (b) Data Tuple (c) Classes and Objects (d) **Data visualization**

8) \_\_\_\_\_ is a collection of resources assembled to create a single unified visual display.

- (a) Interface (b) **Dashboard** (c) Objects (d) Graphics

9) Which of the following module should be imported to visualize data and information in Python?

- (a) csv (b) getopt (c) mysql (d) **matplotlib**

10) \_\_\_\_\_ is a type of chart which displays information as a series of data points connected by straight line segments.

- (a) csv (b) Pie chart (c) Bar chart (d) **All the above**

- 11) Read the following code: Identify the purpose of this code and choose the right option from the following.  
C:\Users\YourName\AppData\Local\Programs\Python\Python36-32\Scripts > pip --version
- (a) Check if PIP is Installed (b) Install PIP (c) Download a Package **(d) Check PIP version**
- 12) Which kind of data encoded visually communicate a quantitative message
- (a) String **(b) Numbers** (c) Images (d) None of these
- 13) The numerical data is encoded using
- (a) dots (b) lines (c) bars **(d) all of these**
- 14) Which of the following is not a type of Data Visualization?
- (a) Graphs **(b) Picture** (c) Maps (d) Infographics
- 15) Which of the following is a collection of resources assembled to create a single unified visual display?
- (a) Info graphics **(b) Dashboard** (c) Graphics (d) Chats
- 16) The most popular data visualization library in Python is
- (a) matplotlib (b) pip (c) matinfolib **(d) matpiplib**
- 17) In Python matplotlib is a
- (a) control structure (b) dictionary **(c) library** (d) list
- 18) How many types of visualizations are there under matplotlib?
- (a) 6 (b) 4 (c) 5 **(d) Many**
- 19) Which of following is not a visualization under matplotlib?
- (a) Scatter plot **(b) Table plot** (c) Histogram (d) Box plot
- 20) Which of the following is a type of plot that shows the data as a collection of points?
- (a) Box plot (b) Chart plot (c) Line plot **(d) Scatter plot**
- 21) Which plot displays the distribution of data based on the five number summary?
- (a) Scatter plot (b) Line plot **(c) Box plot** (d) Chart plot
- 22) Which of the following command is used to install matplotlib for codingt?
- (a) import plt.matplotlib as plot (b) import plot.matplotlib as plt (c) import matplotlib.pyplot as plot  
**(d) import matplotlib.pyplot as plt**
- 23) Which of the following method will be add inside the file to display plot?
- (a) show ( )** (b) display ( ) (c) execute ( ) (d) plot ( )
- 24) Which of the following command will take an arbitrary number of arguments?
- (a) show ( ) **(b) plot ( )** (c) legend ( ) (d) title ( )
- 25) Which button used to click and drag a graph around?
- (a) pan** (b) home (c) zoom (d) drag
- 26) Which button allows to configure various spacing options with figure?
- (a) configure plots **(b) configure subplots** (c) subplots configure (d) plots configure
- 27) Which type of charts displays information as series of data points?
- (a) Bar (b) Pie **(c) Line** (d) Histogram

- 28) Which refers to a graphical representation that displays data by way of bars to show the frequency of numerical data?  
 (a) Bar chart (b) Barch graph (c) Pie chart **(d) Histogram**
- 29) Which of the following chart represents the frequency distribution of continuous variables?  
**(a) Histogram** (b) Pie (c) Line (d) Bar
- 30) Which of the following one indicates discontinuity?  
 (a) Histogram (b) Pie **(c) Bar graph** (d) None of these
- 31) In which plot the width of the bars mayor may not be same?  
**(a) Histogram** (b) Pie chat (c) Bar chat (d) Line
- 32) Data visualization used \_\_\_\_\_ graphics.  
 (a) 2D (b) 3D **(c) Statistical** (d) Image
- 33) \_\_\_\_\_ is the graphical representation of information and data.  
**(a) Data visualization** (b) Data Graphics (c) Data Dimension (d) Data Images
- 34) If a list given to the plot ( ) command, matplotlib assumes it is a sequence of \_\_\_\_\_ values  
 (a) X **(b) Y** (c) 0 (d) 4
- 35) Zoom in will require \_\_\_\_\_ and drag.  
 (a) click **(b) left click** (c) double click (d) right click
- 36) Zoom out will require \_\_\_\_\_ and drag.  
 (a) click (b) left click (c) double click **(d) right click**
- 37) \_\_\_\_\_ and \_\_\_\_\_ are the two ways to display data in the form of diagram.  
 (a) Line chart, Pie chart (b) Line chart, Bar chart **(c) Bar Graph, Histogram** (d) Line chart, Histogram
- 38) Choose the odd one out:  
 (a) Maps (b) Infographics **(c) Histogram** (d) Dash boards
- 39) Match of following
- |                        |                          |
|------------------------|--------------------------|
| (1) Data visualization | -Histogram               |
| (2) Matplotlib         | -Information in graphics |
| (3) Pip                | -Maps                    |
| (4) Infographic        | -Management software     |
- (a) 4-2-3-1 **(b) 3-1-4-2** (c) 1-4-3-2 (d) 3-4-2-1
- 40) Patterns and relationships that are undetectable in test are detectable at a glance using \_\_\_\_\_.  
 (a) Histogram (b) Maps **(c) Dashboard** (d) None
- 41) In Python X vector starts with \_\_\_\_\_.  
**(a) 0** (b) 1 (c) X (d) None of the above
- 42) Which button will allow you to Save your figure in various forms?  
 (a) Home button (b) Zoom (c) Pan axis **(d) Save figures**
- 43) \_\_\_\_\_ create sequence of numbers.

(a) Labels (b) Usage (c) xticks **(d) Range**

44) A histogram represents the frequency distribution of \_\_\_\_\_ variables.

**(a) Continuous** (b) Discrete (c) Random (d) Intermittent

45) A bar graph is a diagrammatic comparison of \_\_\_\_\_ variables.

(a) continuous (b) random **(c) discrete** (d) none of the above

46) Which matplotlib function used to draw line chart?

(a) pie () (b) line () (c) bar () **(d) plot ()**

47) Numerical data may be encoded using \_\_\_\_\_.

(a) dots (b) lines (c) bars **(d) all the above**

48) \_\_\_\_\_ is a management software for installing Python packages.

(a) PHP (b) ASP (c) .Net **(d) Pip**

49) A \_\_\_\_\_ is a type of chart which displays information as a series of data points called markers.

**(a) Line chart** (b) Bar chart (c) Histogram (d) Pie chart

50) Which is not a type of visualization under matplotlib.

(a) histogram (b) piechart (c) boxplot **(d) sqlite**