GURU TEG BAHADUR ACADEMY

CLASS XII SUBJECT: INFORMATICS PRACTICES SUMMER VACATION ASSIGNMENT

Chapter: Plotting with pyplot A. Choose the correct option:

	s used for plotting in b) Pyplot	•	d) Pandas
a) To display the p	pose of the pyplot folot b) To create ints d) To label	e a new figure	
3. Which function a) title()	is used to add a titl b) label()	e to the plot? c) legend()	d) text()
	ault line style in pyp b) Dashed line	-	d) No line
5. Which function a) show()	is used to display t b) display()	-	d) figure()
•	eate a scatter plot in b) plot(x, y, 'o')	<pre>pyplot? c) plot(x, y, '^')</pre>	d) plot(x, y, '*')
7. Which function a) xlabel()	is used to add label b) ylabel()		d) label()
a) To add a title to	the plot b) To	function "legend()"? add labels to the are add a legend to the	xes
9. Which function a) hist()	is used to create a lb) histogram()	histogram in pyplot c) bar()	? d) plot()
10. How do you can plot(x, y, 'b')	reate a bar chart in j b) bar(x, y)		'B') d) bar(x, y, 'B')
B. Short Ouestio	n Answers		

- 1. What is the purpose of the pyplot function "figure()"?
- 2. How do you add a label to the y-axis in pyplot?
- 3. What is the difference between the plot() and scatter() functions in pyplot?
- 4. How do you add a title to the plot in pyplot?

5. What is the purpose of the show() function in pyplot?

C. Programming:

- 1. Plot the data in the table below using a bar chart and do the following:
 - a. Add labels to the x and y axes
 - b. Add a title

X	Y
1	10
2	20
3	30
4	40

2. Create a histogram of the data in the table below.

X
10
20
30
40
50

2. Create a line plot of the data in the table below.

X	Y
1	2
2	4
3	6
4	8