

Q1/ Define the following

1-Python 2- library 3- module

Q2/ Write abbreviations the following

1- IDLE 2- NumPy 3- SciPy

Q3/ Let we have two python array x and y listed below

```
x=np.array ([0,10,20])
```

```
y=np.array ([0,20,40])
```

Using NumPy and Matplotlib python packages in order to write a Python program to draw a line with the suitable all required python codes label in the axes.

Q4/. Write the output for the

```
x=["python"]
x.extend([5,6,7])
x.append(4)
x.append("physics")
x.append("science")
print(x)
```

Q5/ Write the output for the

```
import numpy as np
z=np.arange(50,5,-5)
print(z)
```

Q6/ Write the output for the

```
from numpy import*
x=25.0
y=5.0
print(x/y)
```

Q7/ Write the output for the

```
from numpy import*
x=array ([5,4,1,2])
y=array ([7,4,3])
print(x+y)
```

Q8/ Let we have two python array x and y listed below

```
x=np.array ([0,10])
```

```
y=np.array ([0,20])
```

Using NumPy and Matplotlib python packages in order to write a Python program to draw a line with the suitable all required python codes label in the axes.

Q9/ What is the value of the Python Expression. `print (36 / 6.)`

Q10/ What is the output of `print(5%6)`

Q11/What is the output of the expression `print(-4//5)`

Q12 /What is the output of `print(2 * 2 ** 3 * 2)`

Q13/What is the output of `print(10 + 4 * 2 - 2)`

Q14/ Let we have X as a list

`X=["electrical", "atomic", "computer"]`

How to adds an element at the end of the list?

How to adds more than one element at the end of the list?

Q15/ A ball is dropped under the earth gravity with zero initial velocity so its speeds up. IF the variable t represent the time and the constant g is an acceleration. Write a program to find the speed, v, of the ball after one second.

If we increment the time by one second , and make the old final velocity be the new initial velocity, and recalculate for the speed after 2 seconds