## SEMESTER-1(HONOURS)- PHYSICS PRACTICAL EXAMINATION PAPER-CC-1

TIME:2 Hrs FULL MARKS:30

## ANSWER ANY **SIX** OF THE FOLLOWING QUESTIONS

- 1.a) What is list? Is a list mutable?
- b) Suppose 'a' is a list and is given by

a=[2,3,-5,0], Write appropriate set of commands to interchange first and third element of this list

(2+1)+2

- 2.a) Write command to unquote the string '123'. Give an example of a tuple.
- b) Consider two lists
- C=[5,2,3,9], D=[0,1,5,16]. Add these two lists and comment on the result (2+3)
- 3.a) Write the structure of various types of input commands used in python 3.X
- b)Name two types of loops that are used in python language (4+1)
- 4.a) Write the structure of decision making statemen used in python
- b)Write a two dimensional array and explain the elements. (3+2)
- 5) Write a programme to arrange the following numbers in ascending order

6)Write a programme to multiply the matrices

$$A = \begin{bmatrix} 2 & 5 & 8 \\ 7 & 10 & 12 \end{bmatrix}$$
 and  $B = \begin{bmatrix} 1 & 6 \\ 8 & 12 \\ 5 & 9 \end{bmatrix}$ 

And write the resulting matrix C=AB

7. Write commands on gnuplot plotting software to plot a function f(x) = sin(x) with title 'sine curve', line width 2, line colour -1, label x axis as 'x-axis' and y axis as 'y-axis'

(1+1+1+1+1)

5

5