**WORKSHEET 2 PYTHON**

**Q1 to Q7 have only one correct answer. Choose the correct option to answer your question.**

1. Which of the following is not a core datatype in python?

A) list B) struct

C) tuple D) set

Ans-B

2. Which of the following is an invalid variable name in python?

A) \_init\_ B) no\_1

C) 1\_no D) \_1

Ans-C

3. Which one of the following is a keyword in python?

A) in B) \_init\_

C) on D) foo

Ans-B

4. In which of the following manner are the operators of the same precedence executed in python?

A) Left to Right B) BODMAS

C) Right to Left D) None of these

Ans-A

5. Arrange the following in decreasing order of the precedence when they appear in an expression in python?

i) Multiplication ii) Division iii) Exponential iv) Parentheses

A) iii – iv – ii – i B) iii – iv – i – ii

C) iv – iii – ii – i D) iii – ii – i – iv

Ans-C

6. (28//6)\*\*3/3%3 = ?

A) 7.1111… B) 0

C) 0.3333… D) 1

Ans-C

7. a = input(“Enter an integer”). What will be the data type of a?

A) int B) str

C) float D) double

Ans-A

**Q8 and Q10 have multiple correct answers. Choose all the correct options to answer your question.**

8. Which of the following statements are correct?

A) Division and multiplication have same precedence in python

B) Python’s operators’ precedence is based on PEDMAS

C) Python’s operators’ precedence is based on VBODMAS

D) In case of operators’ having the same precedence, the one on the left side is executed first.

Ans-A,B,D

9. Which of the following is(are) valid statement(s) in python?

A) abc = 1,000,000 B) a b c = 1000 2000 3000

C) a,b,c = 1000, 2000, 3000 D) a\_b\_c = 1,000,000

Ans-A,C

10. Which of the following is not equal to x16 in python?

A) x\*\*4\*\*4 B) x\*\*16

C) x^16 D) (x\*\*4)\*\*4

Ans-A,C

**Q11 to Q13 are subjective questions, answer them briefly**

11. Differentiate between a list, tuple, set and dictionary.

Ans-List-collection of items which is ordered,mutable,allows duplicate members,brackets used [ ]

Tuples –collection of items ordered,immutable,bracket used ()

Set –collection of unordered and unindexed items,mutable,doesnot take duplicate values,bracket {}

Dictionary –key :value pair ,collection of unordered changeable and indexed,,bracket {}

12. Are strings mutable in python? Suppose you have a string “I+Love+Python”, write a small code to replace ‘+’ with space in python.

Ans-strings are immutable so we cant change its value

13. What does the function **ord()** do in python? Explain with an example. Also, write down the function for getting the data type of a variable in python.

Ans-It converts a character into its Unicode value.

X=ord(“h)

Print(X)

Output-104

A=12

Print(type(A))

Output-int

**Q14 and Q15 are programming questions. Answer them in Jupyter Notebook.**

14. Write a python program to solve a quadratic equation of the form ax^2+bx+c=0. Where a, b and c are to be taken by user input. Handle the erroneous input, such as ‘a’ should not be equal to 0.

Ans-answer in jupyternotebook

15. Write a python program to find the sum of first ‘n’ natural numbers without using any loop. Ask users to input the value of ‘n’.

Ans- answer in jupyternotebook