

## 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?**

**Ans:**

- B) struct

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

**Ans:**

- C) 1\_no

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

**Ans:**

- A) in

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

**Ans:**

- B) BODMAS

**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**

**Ans:**

- C) iv – iii – ii – i

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

**Ans:**

- C) 0.3333...

**7. `a = input("Enter an integer")`. What will be the data type of a?**

**Ans:**

- C) float

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

**8. Which of the following statements are correct?**

**Ans:**

- A) Division and multiplication have same precedence in python
- D) In case of operators' having the same precedence, the one on the left side is executed first.

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

**Ans:**

- A) `abc = 1,000,000`
- C) `a,b,c = 1000, 2000, 3000`
- D) `a_b_c = 1,000,000 ASSIGNMENT`

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

**Ans:**

- A) `x**4**4`

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

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

**Ans:**

- List - lists are mutable it can be changed after creation and also list cannot be used as key in dictionary because dictionary itself are immutable.
- Tuples - tuples are immutable it cannot be changed after creation but it can be used in dictionary as tuples and dictionary both are immutable.
- Sets - A set is a collection of unique keys. it is similar to dictionary but it only holds single value not like Key:Value Pair.
- Dictionary - A dictionary is a collection of key:value pair. Eg{'A':1} it is mutable and have unordered collection. whereas list and tuples are ordered collection of items.

**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 reason being their value cannot be updated.
- `text="I+Love+Python"`
- `result=text.replace("+"," ")`
- `print(result)`

**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:**

- The ord() function returns the number representing the unicode code of a specified character.
- type() function is used to fetch the datatype of a variable.
- eg. `type(a)` // 'a' being any input

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