

## **WORKSHEET 3 PYTHON**

**Q1 to Q8 have only one correct answer. Choose the correct option to answer your question.**

1. Which of the following will raise a value error in python?

Answer- C) `int(-3.2)`

2. What will be the output of `round(3.567)`?

Answer- A) 3.5

3. How is the function `pow(a,b,c)` evaluated in python?

Answer- B) `(a**b)%c`

4. What will be the output of `print(type(type(int)))` in python 3?

Answer- A) `<class 'type'>`

5. What will be the output of `ord(chr(65))`?

Answer- A) 'A'

6. What is called when a function is defined inside a class?

Answer- D) Method

7. What will be the output of `all([1, 0, 5, 7])`?

Answer- C) True

8. Is the output of the function `abs()` the same as that of the function `math.fabs()`?

Answer- B) Sometimes

**Q9 and Q10 have multiple correct answers. Choose all the correct options to answer your question.**

9. Select all correct float numbers in python?

Answer- C) 4.2038   D) 3.0

10. Which of the following is(are) correct statement(s) in python?

Answer- A) You can pass positional arguments in any order.

B) You can pass keyword arguments in any order.

**Q11 to Q15 are programming questions. Answer them in Jupyter Notebook.**

**11.** Write a python function print pyramid of stars. Level of the pyramid should be taken as an input from the

user. E.g.

Input = 5

Output:

```
      *
     * *
    * * *
   * * * *
  * * * * *
```

**12.** Write a python function print Hourglass pattern.

E.g.

Input = 5

Output:

**13.** Write a python function to print Pascal's Triangle. The number of levels in the triangle must be taken as input

by the user. E.g.

Input = 5

Output:

```
1
1 1
1 2 1
1 3 3 1
1 4 6 4 1
```

**14.** Write a python function to print Diamond Shaped Pattern shown below.

Function must take integer input

which represents the number of stars in the middle most line. E.g.:

Input = 5

Output:

**15.** Write a python function to print Diamond Shaped Character Pattern

shown below. Function must take integer

input within range 1 to 26, which represents the rank of the alphabet. E.g.:

Input = 5

Output: