

## Assignment (Unit-1)

### SECTION A (1\*10=10 Marks)

- 1 [CO1] A \_\_\_\_\_ is a sequence of one or more characters used to provide a name for a given program element.  
a. Identifier.                      b. Variable                      c. String                      d. Character
- 2 [CO1] What is the output of following statement?  
**Sum = 10 + '10'**  
a. 1010                      b. 20                      c. TypeError.                      d. None of the above
- 3 [CO1] \_\_\_\_\_ is an identifier that has predefined meaning.  
a. variable                      b. identifier                      c. keyword.                      d. None of these
- 4 [CO1] What will be the output of the following statement?  
**print(15 + 20 / 5 + 3 \* 2 - 1)**  
a. 19.0                      b. 19                      c. 12.0                      d. 24.0.
- 5 [CO1] Operators with the same precedence are evaluated in which of the following orders?  
a. Left to Right.                      b. Right to Left  
c. Unpredictable                      d. None of the above
- 6 [CO1] Which of the following Python logical expressions can determine whether x and y are greater than z?  
a. x & y > z                      b. (x > z) & (y > z)  
c. (y > z) & (x > y)                      d. Both b and c                      e. All of the above
- 7 [CO1] Evaluate the following Boolean expressions. Consider the value of P, Q and R as 4, 5 and 6, respectively.  
a. P > 7                      b. P < 7 and Q > 2                      c. P == 1                      d. P > 2 || Q > 6
- 8 [CO1] How many operands are there in the following arithmetic expression?  
**6 \* 35 + 8 - 25**  
a. 4                      b. 3                      c. 5                      d. 8
- 9 [CO1] Guess the output of the following expression.  
**float(22//3+3/3)**  
a. 8                      b. 8.0                      c. -8.3                      d. 8.333
- 10 [CO1] The operators is and is not are \_\_\_\_\_.  
a. Identity Operators                      b. Comparison Operators  
c. Membership Operators                      d. Unary Operators

### SECTION B (2\*4=8)

1. [CO1] What is an interpreter?
2. [CO1] Briefly explain binary left shift and binary right shift operators with examples.
3. [CO1] State the output of the following statements.  
a. `print(format('Hello', '>2'))`                      b. `print(format('Hello', '<2'))`  
c. `print(format('Hello', '>4'))`                      d. `print(format('Hello', '>20'))`

4. [CO1] Write a program that swaps the values of variables a and b. You are not allowed to use a third variable or any arithmetic operator.

**SECTION C (6\*2=12 Mark)**

1. [CO1] Identify the error in the following piece of code. State the reason behind the error and explain how you will fix it.

```
num1 = '10'  
num2 = 20.65  
sum = num1 + num2  
print(sum)
```

2. [CO1] Write a short note on data types in Python.

**SECTION D (10\*2=20 Mark)**

1. [CO1] Explain different operators in Python with examples. What do you mean by precedence and associativity of operators?
2. [CO1] What will be the output of the following statements if all of them are executed in Python interactive mode?

- |                                  |                                   |
|----------------------------------|-----------------------------------|
| a. <code>abs(-2)</code>          | b. <code>min(102,220,130)</code>  |
| c. <code>max(-1,-4,-10)</code>   | d. <code>max('A','B','Z')</code>  |
| e. <code>max('a','B','Z')</code> | f. <code>round(1.6)</code>        |
| g. <code>math.ceil(1.2)</code>   | h. <code>math.floor(1.8)</code>   |
| i. <code>math.log(16,2)</code>   | j. <code>math.cos(math.pi)</code> |