

2411001002010011
EXAMINATION OCTOBER 2024 (ATKT EXAM)
BACHELOR OF SCIENCE (COMPUTER SCIENCE) SEM-2
MAJOR-1-PYTHON PROGRAMMING-1 (TH)

[Time: As Per Schedule]

[Max. Marks : 50]

Instructions:

1. Fill up strictly the following details on your answer book

- a. Name of the Examination: **BACHELOR OF SCIENCE (COMPUTER SCIENCE) SEM-2**
- b. Name of the Subject : **MAJOR-1 PYTHON PROGRAMMING-1 (TH)**
- c. Subject Code No : **2411001002010011**

2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

Seat No:

--	--	--	--	--	--

Student's Signature

Q.1 Answer the following questions.

10

1. Suppose list Example = ['a','b','c','d','e','f','g'], what is output of list after listExample.pop(1)?
2. Python supports the creation of anonymous functions at runtime, using a construct called _____
3. To open a file c:\marks.txt for reading, we use _____
4. Which is the extension of the Python User Define Module?
5. What is the output of print (0.1 + 0.2 == 0.3)?
6. What is output of x=30; y=4;print(x/y);print(x//y); print(x%y)?
7. Is python provide multiline comment? Which character is used to give single-line and multiline comments in Python?
8. What is the output of the following code snippet?

```
letters = [10,20,30,40,50,60]
print(letters[::-2])
```
9. What is the result of following code?

```
fruit = ["apple", "banana", "cherry"]
tropicalfruit = ["mango", "pineapple", "papaya"]
fruit.extend(tropicalfruit)
print(fruit)
```
10. What will be the output of the following code?

```
x = {"apple", "banana", "cherry"}
```

```
y = {"google", "microsoft", "apple"}  
x.intersection_update(y)  
print(x)
```

Q.2 Answer the following questions. (Any Two) 14

1. Explain various conditional statements of python giving example.
2. Write detail note on application of python.
3. What is dictionary? Give the syntax and example to declare a dictionary and also explain inbuilt function of it.

Q.3 Answer the following questions. (Any Two) 14

1. Discuss Numpy with its methods.
2. What are Central Tendency measures? Describe mean, median, mode, variance, Standard Deviation.
3. Explain head, tail, loc, iloc, value functions with data frame example.

Q.4 Write Short note on the followings. (Any Three) 12

1. What is type casting in python? Explain available casting methods with examples.
2. Explain user define function of python giving syntax and example.
3. What is Sets? Compare and contrast it with List.
4. Explain the element of the plot in python
5. File opening modes and its significance in python.

*****END*****