



**Avinashilingam Institute for Home Science and Higher Education for Women**  
(Deemed to be University Estd. u/s 3 of UGC Act 1956, Category 'A' by MHRD)  
Re-accredited with 'A++' Grade by NAAC. Recognised by UGC Under Section 12B  
Coimbatore - 641 043, Tamil Nadu, India

**Bachelor's Degree Arrear Examination – November 2024**  
**IV Semester**

Batch : 2022 Arrear  
Major : Computer Science

Time: 3 Hours  
Max. Marks: 100

**21BCSC18- PROGRAMMING IN PYTHON**

1. What will the Python function in the code below do? Choose the right option. CO1K2

```
def f(value, values):  
    v = 1  
    values[0] = 44  
    t = 3  
    v = [1, 2, 3]  
    f(t, v)  
    print(t, v[0])
```

a. 1 44      b. 3 1      c. 3 44      d. 1 1

2. What will be the output of the following Python code?CO1K2

```
a=[1,2,3,4,5,6,7,8,9]  
print(a[::2])
```

a. [1,2]      b. [8,9]      c. [1,3,5,7,9]      d. [1,2,3]

3. Python language was developed by CO2K2  
a. Zim Den      b. Guido van Rossum      c. NieneStom      d. Wick van Rossum

4. Mark the choice based on whether Python is case sensitive CO2K2  
a. yes      b. no      c. machine dependent      d. not dependent

5. Identify the function that executes without errors. CO3K1  
a. round(45.8)      b. round(6352.898,2,5)      c. round()      d. round(7463.123,2,1)

6. Which of the following functions is a built-in function ? CO3K2  
a.val()      b. print()      c. compile()      d. drop()

7. Pick the statement used in Python to create empty dictionary CO4K2  
a. d1= {}      b. d1= ()      c. d1 = dict {}      d. d1= []

8. The function that removes last element from a list is CO3K2  
a. pop      b. remove      c. dispose      d. discard

9. Pick out the answer which is not an exception handling keyword. CO5K2  
a. accept      b. finally      c. try      d. except

10. Mark the purpose of if statement in Python? CO5K1  
a. to loop through a sequence b. to execute a block conditionally  
c. to define a function d. to handle exceptions

**Part B**

**5 x 6=30**

**Answer ALL the questions**

**Answer should not exceed 400 words or two pages**

11. a. Highlight on the significant features of Python language. CO1 K1  
(Or)  
11. b. Discuss on the data types used in Python with suitable examples. CO1 K2
12. a. Explain the functions in PYTHON with syntax. CO2 K2  
(Or)  
12. b. Illustrate on the Recursive functions used in PYTHON. CO2K1
13. a. Write a program using single dimensional array in Python CO1K3  
(Or)  
13. b. Write a program to use set related operations . CO3K2
14. a. Explain the Tuple data type applied in Python with example CO4K2  
(Or)  
14. b. Write a program to implement nested dictionary in Python CO4K2
15. a. Highlight on the properties of Dictionary. CO5K2  
(Or)  
15. b. Discuss on few important libraries used in Python. CO5K3

**Part-C**

**5x12=60**

**Answer ALL questions**

**Each answer should not exceed 800 words or four pages**

16. a. Explain the looping concepts used in Python with examples. CO1K2  
(Or)  
16. b. Discuss on the types of control statements with examples. CO1K1
17. a. Explain the structure of PYTHON user-defined functions with suitable examples. CO2K3  
(Or)  
17. b. Discuss the usage of PYTHON script in detail. CO3K3
18. a. Elucidate on the different string operations CO3K2  
(Or)  
18. b. Highlight on the various List operations used in Python. CO3K2
19. a. Explain on Tuples and its different operations with suitable example. CO4K2  
(Or)  
19. b. How the Creation and Updation process is performed using a Dictionary? CO4K1
20. a. Write a program to demonstrate User Defined Exception in Python CO5K2  
(Or)  
20. b. Explain the application of Python open source language CO5K2

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