

**2024/FYUG/EVEN/SEM/
CSCSEC-151T/064**

FYUG Even Semester Exam., 2024

COMPUTER SCIENCE

(2nd Semester)

Course No. : CSCSEC-151T

(Python Programming)

Full Marks : 50

Pass Marks : 20

Time : 2 hours

*The figures in the margin indicate full marks
for the questions*

SECTION—A

Answer any fifteen questions :

1×15=15

1. Why is Python used widely?
2. Write an application of Python.
3. How to write comments in Python?
4. Write the output of the following Python code snippet :

`print (2**3+(5+6)**(1+1))`

5. What is if-elif-else statement in Python?
6. What is indentation in Python?
7. Define conditional statement.
8. Write the output of the following Python code snippet :
9. Define list in Python.
10. How to access items in a dictionary using keys?
11. Define Python module.
12. Write the output of the following Python code snippet :

```
a = [ 1, 2, 3]
a = tuple(a)
a[0]=2
print(a)
```

13. How to declare a function in Python?
14. Define lifetime of a variable.
15. What is recursion?
16. Write the output of the following Python code snippet :

```
a = 3
b = 1
print(a, b)
a, b = b, a
print(a, b)
```

17. What is directory in Python?
18. Define Python built-in exception.
19. Which command is used to open a file in Python?
20. Write the output of the following Python code snippet :

```
Day = ["Sunday", "Monday",
       "Tuesday", "Wednesday"]
del Day [2]
print (Day)
```

(4)

SECTION—B

Answer any five questions :

2×5=10

21. What is the difference between l-value and r-value? Give example.
22. What are tokens in Python? Give example.
23. Write down the two differences between conditional flow and iterative flow.
24. How to traverse a string using loop in Python?
25. What do you mean by mutability of a dictionary? Give example.
26. Briefly describe tuple operations in Python.
27. Write down the two differences between pass-by-value and pass-by-references.
28. What are the types of functions available in Python? Give example.
29. How to plot a graph in Python using matplotlib function?
30. What is user-defined exception in Python? Give example.

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SECTION—C

Answer any five questions :

5×5=25

31. Explain with example, various operators available in Python.
32. What is a literal in Python? Mention various types of literals available in Python. 1+4=5
33. Explain different string operations available in Python.
34. Write a program script to find the factorial of a positive number.
35. Explain various list operations available in Python.
36. What is string manipulation? Describe various string manipulation operations available in Python. 1+4=5
37. Write a Python script to generate Fibonacci series.

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(Turn Over)

38. Write a Python script that reads an integer value and prints "Leap Year" or "Not a Leap Year".
39. Write a Python script to compare three numbers and print the largest one.
40. Explain various file operations available in Python.
