

23U344

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Name: .....

Reg.No: .....

**THIRD SEMESTER B.Sc./B.C.A. DEGREE EXAMINATION, NOVEMBER 2024**

(CBCSS - UG)

(Regular/Supplementary/Improvement)

**CC19U BCS3 A11A / CC19U BCA3 A11A - PYTHON PROGRAMMING**

(Computer Science / Computer Application - Common Course)

(2019 Admission onwards)

Time : 2.5 Hours

Maximum : 80 Marks

Credit : 4

**Part A** (Short answer questions)

Answer *all* questions. Each question carries 2 marks.

1. Write a short note on python interpreter.
2. Define variables.
3. Explain type function with an example.
4. Define input method with example.
5. Write a python program to print "Hello####world".
6. What is compound boolean expresion.
7. Write short note on continue statement.
8. Explain infinite loop.
9. Explain built-in functions.
10. List any three classes in the datetime module.
11. What do you mean by composition of functions.
12. Explain calling of a function.
13. Explain how to create a list with example.
14. Define tuple in Python.
15. Explain how to update elements in a dictionary with example.

**(Ceiling: 25 Marks)**

**Part B** (Paragraph questions)

Answer *all* questions. Each question carries 5 marks.

16. Write a note on Evaluations of Expressions in Python language.
17. Write a Python program to find the average of N numbers.

18. Explain random numbers and methods used in python to generate random numbers.
19. Explain parameter and argument passing in functions.
20. Explain local and global variables with example.
21. Define recursion with example.
22. Explain the basic operations of Python's lists with suitable example.
23. Explain the set intersection operation with respect Python's set. Illustrate with example.

**(Ceiling: 35 Marks)**

**Part C (Essay questions)**

Answer any *two* questions. Each question carries 10 marks.

24. What is an operator? Explain different types of operators in Python language.
25. Explain the different forms of if statement with examples.
26. Narrate the Control Structures with various types.
27. What are strings in Python? How are string defined and accessed. Illustrate with suitable examples.

**(2 × 10 = 20 Marks)**

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