

22U335

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Name: .....

Reg.No: .....

**THIRD SEMESTER B.Sc./B.C.A. DEGREE EXAMINATION, NOVEMBER 2023**

(CBCSS - UG)

(Regular/Supplementary/Improvement)

**CC19U BCS3 A11 / CC19U BCA3 A11 - 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. List down the applications of Python.
2. Expand and define IDLE.
3. Differentiate between variable and keyword.
4. What is an expression?
5. Explain type function with example.
6. Explain input method with example.
7. Write a python program to print "Hello how are you?" .
8. Define boolean expression.
9. Define range function with example.
10. Define continue statement.
11. Explain lambda function.
12. Define time class.
13. Explain calling of a function with an example.
14. Explain return statement in function with example.
15. Explain the concept of key in dictionary in python.

**(Ceiling: 25 Marks)**

**Part B (Paragraph questions)**

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

16. What is a data type? Describe various data types available in Python.
17. Explain the working of while loop with suitable example.

18. Explain while statement with example.
19. With suitable example explain infinite loop and nested loop.
20. What is a recursive function?
21. Explain the purpose, syntax and usage of the remove() method of the Python's list with suitable examples.
22. Explain the negative indexing with respect to Python's tuples. Illustrate with example.
23. Explain how can you define and access sets in Python.

**(Ceiling: 35 Marks)**

**Part C (Essay questions)**

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

24. Describe the syntactic rules and usage of if-elif-else statement in Python with suitable example. Also explain the use of if statements.
25. Explain user defined functions in detail. What do you mean by composition of functions?
26. What are strings in Python? Explain the syntax, purpose and the usage of any five built-in string function of Python with suitable examples.
27. What is a list in Python? How can you define a list in Python? Explain the different methods of accessing lists. Illustrate with suitable examples.

**(2 × 10 = 20 Marks)**

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