

20U337

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Name: .....

Reg.No: .....

**THIRD SEMESTER B.Sc. CS/B.C.A. DEGREE EXAMINATION, NOVEMBER 2021**

(CBCSS - UG)

(Regular/Supplementary/Improvement)

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

(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. What are the applications of Python .
2. Expand and define IDLE.
3. What are variables?
4. What are the Bitwise operators?
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 with example.
9. Explain the syntax of while loop.
10. Write short note on break statement.
11. Define math module.
12. Write a program to generate a random number between 0 and 9.
13. Explain return statement in function with example.

14. Write down any two advantages of using recursion.
15. List down the set operations in python.

**(Ceiling: 25 Marks)**

**Part B** (Paragraph questions)

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

16. Write the associativity and priority of operators.
17. Explain the 'for' statement with examples.
18. Explain the use of range function in for loop with example.
19. Explain infinite loop and nested loop with suitable example.
20. With suitable example explain the concept of function call.
21. Explain the basic operations of Python's lists with suitable example.
22. Explain the purpose, syntax and usage of the built-in dictionary method keys(). Illustrate with suitable examples.
23. Describe the operations of set specific built-in functions in Python.

**(Ceiling: 35 Marks)**

**Part C** (Essay questions)

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

24. Explain the different forms of if statement with examples.
25. Define function. What is meant by built-in functions in Python? Describe at least ten built-in functions in Python.
26. What is a list in Python? How can you define a list in Python? Explain how can you insert into and delete elements from Python's lists.
27. What is a tuple in Python? How can you define a tuple in Python? Explain how can you create and access tuples in python.

**(2 × 10 = 20 Marks)**

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