

D 31761

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Name.....

Reg. No.....

**THIRD SEMESTER (CBCSS—UG) DEGREE EXAMINATION  
NOVEMBER 2022**

Common Course for B.Sc. L.R.P. (Alternate Pattern)

A 11—PYTHON PROGRAMMING

(2019 Admission onwards)

Time : Two Hours and a Half

Maximum : 80 Marks

**Section A**

*Answer all questions.  
Each question carries 2 marks.  
Maximum ceiling 25 marks.*

1. Give the rules for naming an identifier in Python.
2. What is the purpose not in operator in Python ?
3. What is the use of *eval()* function in Python ?
4. Differentiate between *input()* and *raw\_input()* functions in Python.
5. What is the difference between *break* and *continue* statements in Python ?
6. How will you create an infinite loop in Python ?
7. What are lambda functions ?
8. What are keyword arguments in functions ?
9. Differentiate between built-in functions and user-defined functions in Python.
10. What are sets in Python ?
11. How will you reverse a list in Python ?
12. What do you mean by Python dictionary ?
13. What are destructors in Python ?
14. How will you rename a file in Python ?
15. What is the use of import statement in Python ?

**Section B**

*Answer all questions.  
Each question carries 5 marks.  
Maximum ceiling 35 marks.*

16. List out the operator precedence in Python.
17. Give an account on arithmetic operators in Python.

**Turn over**

18. Explain the various decision-making statements in Python.
19. Write a program to find the Least Common Multiple (LCM) of any two positive integer number.
20. Explain *while* loop and *while* loop with *else* case with examples.
21. List the function and syntax any five string formatting functions in Python.
22. Explain the various modes for opening a file in Python.
23. What are the advantages of Object Oriented Programming ? Explain.

### Section C

*Answer any two questions.*

*Each question carries 10 marks.*

24. A) Explain the salient features of Python programming language. (5 marks)  
B) Describe the different ways of writing and executing of Python program. (5 marks)
25. Discuss the different argument passing mechanism in Python with suitable examples.
26. Write a program to find the area and perimeter of a rectangle using class and objects.
27. What are mutable and immutable objects in Python ? Explain any two data types in each of this category and its associated methods with examples.

[2 × 10 = 20 marks]