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Name.....

Reg. No.....

**THIRD SEMESTER (CBCSS—UG) DEGREE EXAMINATION
NOVEMBER 2024**

B.Sc. LRP (Alternate Pattern)

A11 GENERAL COURSE I : PYTHON PROGRAMMING

(2019—2023 Admissions)

Time : Two Hours and a Half

Maximum : 80 Marks

Section A*Answer the following questions (1-15).**Each question carries 2 marks.*

1. What is python interpreter ?
2. What is the difference between keywords and identifiers in Python ?
3. Write about Python eval() function.
4. Arrange the following operators from high to low precedence:
 - (i) Logical operators ;
 - (ii) Exponent ;
 - (iii) Equality Operators ; and
 - (iv) Relational operators.
5. Write the syntax and flowchart for if else statement.
6. What is a range () function ?
7. What is an infinite loop in Python ?
8. What are the different types of functions in Python ?
9. How do you display date and time in python ?
10. What is the difference between break and continue statement ?
11. What happens if a semicolon (;) is placed at the end of a Python statement ? Explain.
12. "Strings in Python are immutable". Explain this statement with examples.

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13. Explain zip() function with an example.
14. What are the advantages of tuple over list ?
15. Write a Python program to find maximum and minimum elements in a tuple.

(Ceiling : 25 marks)

Section B

Answer the following questions (16-23).

Each question carries 5 marks.

16. Discuss the rules to name an identifier in Python.
17. What are various types of arithmetic operators in Python ? Describe.
18. Appraise with an example nested if and elif header in Python.
19. What do you mean by compound Boolean expression ? Explain.
20. Discuss the differences between function definition and function call.
21. What are the functions available to work with random numbers ? Explain.
22. What is the difference between lists and tuples ? Give an example for their usage.
23. How to update a dictionary in Python ? Give Example.

(Ceiling : 35 marks)

Section C

*Answer any **two** questions (24-27).*

Each question carries 10 marks.

24. What are the basic data types in Python ? Explain with examples.
25. What are control statements in Python ? Describe different types of control statements.
26. Explain the syntax and structure of user defined functions in Python with examples.
27. What are the different ways to create a string in Python ? Explain with example.

(2 × 10 = 20 marks)