D 111914   (Pages : 2)   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.

Turn over

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.

$(2 \times 10 = 20$ marks)