D 51703   (**Pages : 2**)   Name..

Reg. No....................................

THIRD SEMESTER (CBCSS—UG) DEGREE EXAMINATION
NOVEMBER 2023

Common Course (B.Sc. LRP (Alternate Pattern))

A11—PYTHON PROGRAMMING

(2019—2022 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 are the features of Python programming ?

2. State about logical operators available in Python language with example.

3. What is the difference between $a = 10$ and $a = =10$?

4. Write a program to calculate the square and cube of a number using * operator.

5. Define Boolean expression with example.

6. Differentiate between void function and fruitful function.

7. What do you mean by nested loop ?

8. Write the syntax for if.. ..elif....else conditionals.

9. Explain about variable-length arguments.

10. How to call a function in Python ? Explain with an example.

11. What is a default parameter ?

12. What is the use of the len() function ? Give one example.

13. What are the different types of string operators in Python ?

14. What are Python's dictionaries ?

15. What is a List ? How lists differ from tuples ?

(Ceiling = 25 marks)

Turn over

Section B

Answer the following questions (15-23).
Each question carries 5 *marks.*

16. How will you define function in Python ? Give suitable example.

17. Distinguish between global and local variables with examples.

18. Write a Python program using nested if statement ?

19. With an example, discuss about Python range function.

20. Explain about Python built in functions.

21. What do you mean by user defined functions ? How to create it in Python.

22. Explain the different ways in which the lists can be created

23. What are sets in Python ? Explain different operations on sets with examples ?

(Ceiling = 35 marks)

Section C

Answer any **two** *questions* (24-27).
Each question carries 10 *marks.*

24. Describe about the concept of precedence and associativity of operators with examples.

25. Explain with an example while loop, break statement and continuous statement in Python.

26. Give a note on return statement in Python. Write a Python program illustrating use of return statement.

27. Explain about the various operations that can be performed on tuples.

(2 × 10 = 20 marks)