# 555485

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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.

**Turn over** 

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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**

2

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.

 $(2 \times 10 = 20 \text{ marks})$ 

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