

**[B-23-X]**

Roll No. ....

Total No. of Questions : 31]

[Total No. of Printed Pages : 4

**12<sup>th</sup>ARF(SZ)JKUT2024-25**

**323-X**

**COMPUTER SCIENCE**

**Time : 3 Hours]**

**[Maximum Marks : 70**

**SECTION-A**

**(OBJECTIVE TYPE QUESTIONS)**

1 each

1. Python is an object oriented language. (True/False)
2. What is Numpy ?
3. Python language is named after the .....

(Fill in the blank)

4. Python has six standard data types. (True/False)
5. Tuple is one of the data type of Python. (True/False)
6. An SQL command used to retrieve data is ALTER. (True/False)

Turn Over

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7. DDL stands for ..... (Fill in the blank)
8. A ..... gate provides complement of its input. (Fill in the blank)
9. Define Phishing.
10. Recuva is a user friendly tool that can recover files. (True/False)

### SECTION-B

#### (SHORT ANSWER TYPE QUESTIONS-I)

2 each

11. What is Plagiarism ?
12. Describe the function of Boolean AND Operator.
13. Draw truth table for the expression :
- $$Y = (A . B)C$$
14. Write an SQL query that produces the EMPLOYEE table with the columns in the following order :
- City, Emp-Name, Emp-Code, Basic-Pay
15. Explain list data structure in Python.
16. What are packages in Python ?

17. Briefly describe the use of access specifiers in Python.
18. Briefly explain the difference between a variable with 'Local Scope' and 'Global Scope'.
19. Give the use of break and continue statements in Python.

### SECTION-C

#### (SHORT ANSWER TYPE QUESTIONS-II)

3 each

20. Write a program in Python to find length of a given list.
21. Describe the concept of 'Encapsulation' of an OOP.
22. What is Destructor ? Give its significance.
23. Write Python Code to create a function for swapping two given numbers. <https://www.jkboseonline.com>
24. What are Functions ? Give their significance in Python.
25. Giving definition of a 'Relation', explain a Relational Data Model.
26. What is Primary Key ? Give its role in a Relational Data Model.
27. What is Cyber Bullying ? Give its preventive measures.
28. Distinguish between LAN and WAN.

**SECTION-D**

**(LONG ANSWER TYPE QUESTIONS)**

5 each

29. Discuss the use of while loops in Python with the help of a program.

*Or*

Explain the use of For Loop in Python, giving its syntax with a suitable example.

30. What is a dictionary in Python ? Explain, how to create and add elements to a dictionary.

*Or*

What are tuples in Python ? Giving syntax, explain how to create python tuples ?

31. State the following :

- (a) Principle of Quality
- (b) De-Morgan's Laws

*Or*

Explain the function of NOR Gate. Why NOR gate falls in the category of Universal Gates ?