

[B-23-X]

Roll No.

Total No. of Questions : 31]

[Total No. of Printed Pages : 4

12thARF(SZ)JKUT2024-25

323-X

COMPUTER SCIENCE

Time : 3 Hours]

[Maximum Marks : 70

SECTION-A

(OBJECTIVE TYPE QUESTIONS)

1 each

(True/False)

1. Python is an object oriented language.

2. What is Numpy ?

3. Python language is named after the

(Fill in the blank)

(True/False)

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.

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 :
- $$Y = (A \cdot B)C$$
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.
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 ?