



Roll No.

Total No. of Questions : 31]

[Total No. of Printed Pages : 4

12thARF(SZ)JKUT2024-25

323-Z

COMPUTER SCIENCE

Time : 3 Hours]

[Maximum Marks : 70

SECTION-A

(OBJECTIVE TYPE QUESTIONS)

1 each

1. What is meant by "Python in object oriented language" ?
2. What is C Python ?
3. What is a Framework in Python ?
4. Python has seven standard data types. (True/False)
5. Guido Van Rossum developed Python programming language. (True/False)
6. An SQL command used to retrieve data is SELECT. (True/False)

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B-23-Z

Turn Over

7. Write syntax for update command in SQL.
8. The principal operation of gate is binary addition.
(Fill in the blank)
9. Choose the correct/most appropriate answer for the following :
Information security ensures :
- (A) Confidentiality of data (B) Integrity of data
(C) Availability of data (D) All of these
10. Name any *two* antivirus softwares.

SECTION-B

(SHORT ANSWER TYPE QUESTIONS-I)

2 each

11. What is Phishing ?
12. Describe the function of Boolean OR Operator.
13. Draw truth table for the expression :
$$Y = A.(B + C)$$
14. Write SQL command that increases the ratings for the field RATE of all CUSTOMERS in SHIMLA by 100.
15. "In Python, tuples are immutable." Explain the statement.
16. What is meant by Module 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. <https://www.jkboseonline.com>

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 ?

(B-23-Y)

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SECTION-A

(OBJECTIVE TYPE QUESTIONS)

1 each

1. Python is an object oriented language. (True/False)
2. The extension of Python files is ".Py". (True/False)
3. Where are Pandas in Python used for ?
4. Python has five standard data types. (True/False)
5. Dictionary is one of the data type of Python. (True/False)
6. An SQL command used to retrieve data is UPDATE. (True/False)

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B-23-Y

Turn Over

7. DML stands for (Fill in the blank)
8. The out of gate in HIGH when all its inputs are HIGH. (Fill in the blank)
9. Define an Antivirus Software.
10. Which of the following is an antivirus software ?
- (A) McAfee (B) AVG
- (C) Both (A) and (B) (D) None of these

SECTION-B

(SHORT ANSWER TYPE QUESTIONS-I)

2 each

11. What is Snooping ?
12. Describe the function of Boolean NOT Operator.
13. Draw truth table for the expression :
- $$Y = (A + B)C$$
14. Write SQL command that puts the values Manali, Manisha, NULL, 1901 into the respective fields of SALESMAN Table :
- City, Customer, Rate, Customer-Num.
15. Describe a list in Python.
16. List any *four* built-in Modules 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.
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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.
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(LONG ANSWER TYPE QUESTIONS)

5 each

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B-23-Y

[B-23-X]

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323-X

COMPUTER SCIENCE

Time : 3 Hours]

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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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B-23-X

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)

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