

12 R

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Register No.

**First Revision Examination - 2024**  
**COMPUTER SCIENCE**

Time : 3.00 Hrs.

Marks : 70

(15x1=15)

**I. Choose the correct answer.**

1. The values which are passed to a function definition are called  
a) Arguments b) Subroutines c) Function d) Definition
  2. Which of the following is a compound structure?  
a) Pair b) Tuple c) Single d) Quadrat
  3. Which members are accessible from outside the class?  
a) Public members b) Protected members c) Secured members d) Private members
  4. The complexity of linear search algorithm is  
a)  $O(n)$  b)  $O(\log n)$  c)  $O(n^2)$  d)  $O(n \log n)$
  5. Which operator is also called as comparative operator?  
a) Arithmetic b) Relational c) Logical d) Assignment
  6. Which amongst this is not a jump statement?  
a) for b) pass c) continue d) break
  7. In which arguments the correct positional order is passed to a function?  
a) Required b) Keyword c) Default d) Variable-length
  8. Which of the following operator is used for concatenation?  
a) + b) & c) \* d) =
  9. Which of the following Python function can be used to add more than one element within an existing list?  
a) append() b) append\_more() c) extend() d) more()
  10. Which of the following method is used as destructor?  
a) \_init\_() b) \_dest\_() c) \_rem\_() d) \_del\_()
  11. Who developed ER model?  
a) Chen b) EF Codd c) Chend d) Chand
  12. Which command lets to change the structure of the table?  
a) SELECT b) ORDER BY c) MODIFY d) ALTER
  13. What does \_name\_ contains?  
a) c++ filename b) main() name c) python filename d) os module name
  14. Which of the following is an organized collection of data?  
a) Database b) DBMS c) Information d) Records
  15. Identify the package manager for Python packages, or modules.  
a) Matplotlib b) PIP c) plt.show() d) python package
- II. Answer any 6 questions. 24 is a compulsory question.** (6x2=12)
16. What is a Pair? Give an example.
  17. What is Mapping?

18. What is a literal? Explain the types of literals.
19. How to set the limit for recursive function? Give an example.
20. What will be the output of the following python code?

```
Str1 = "School"
print(Str1*3)
```

21. How will you create constructor in Python?
22. What is use of next() function?
23. Which method is used to fetch all rows from the database table?
24. List the general types of data visualization.

**III. Answer any 6 questions. 33 is a compulsory question.**

(6x3=18)

25. Why strlen is called pure function?
26. Which strategy is used for program designing? Define that strategy.
27. What are the factors that influence time and space complexity.
28. Write short notes on Arithmetic operator with example.
29. Write a program to display:

```
A
A B
A B C
A B C D
A B C D E
```

30. Write a short about the followings with suitable example.
  - (a) capitalize() (b) swapcase()
31. Write any three DDL commands.
32. What is MinGW? What is its use?
33. What is the use of Where Clause? Give a python statement using the Where Clause.

**IV. Answer all the questions.**

(5x5=25)

34. a) What are called parameters and write a note on:
  - (i) Parameter without Type (ii) Parameter with Type (OR)
  - b) write any five benefits in using modular programming.
35. a) Explain input() and print() functions with examples. (OR)
  - b) Write a program to display multiplication table for a given number.
36. a) Explain the scope of variables with an example. (OR)
  - b) Explain the different set operations supported by python with suitable example.
37. a) Differentiate DBMS and RDBMS. (OR)
  - b) Differentiate Excel file and CSV file.
38. a) Explain each word of the following command.
 

```
Python<filename.py>-<i><C++ filename without cpp extension>
```

 (OR)
  - b) Explain the various buttons in a matplotlib window.