

12 PRegister No. 12 A05

Time : 3.00 Hrs.

**Half-Yearly Examination - 2023
COMPUTER SCIENCE**

Marks : 70

PART - I**(15x1=15)****NOTE: Answer all questions:**

1. The variables in a function definition are called in
a) Subroutines b) Function c) Definition d) Parameters
2. Bundling two values together into one can be considered as
a) Pair b) Triplet c) Single d) quadrat
3. Which of the following is used in programming language to map the variable and object?
a) :: b) := c) = d) ==
4. Which of the following is used to describe the worst case of an algorithm?
a) Big A b) Big S c) Big W d) Big O
5. This symbol is used to print more than one item on a single line
a) Semicolon (;) b) Dollor (\$) c) Comma (,) d) colon (:)
6. Which statement is generally used as a place holder?
a) continue b) Break c) Pass d) go to
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 Append?
a) + b) & c) * d) +=
9. Let Set A = {3,6,9} set B = {1,3,9} What will be the result of the following snippet? Print (set A|set B)
a) {3,6,9, 1,3,9} b) {3,9} c) {1} d) {1,3,6,9}
10. The process of creating an object is called as
a) Constructor b) Destructor c) Initialize d) Instantiation
11. Who developed ER model?
a) Chen b) EF Codd c) Chend d) Chand
12. The command to delete a table including the structure is
a) DROP b) DELETE c) DELETE ALL d) ALTER TABLE
13. The Expansion of CRLF is
a) Control Return and Line Feed b) Control Return and Form Feed c) Control Router and Line Feed
d) Carriage Return and Line Feed
14. Which of the following can be used for processing text, numbers, image and scientific data?
a) HTML b) C c) C++ d) PYTHON
15. _____ is a type of char which displays information as a series of data points connected by straight line segments
a) CSV b) Pie chart c) Bar Chart d) All the above.

PART - II**NOTE: Answer any six questions. Question No.24 is compulsory****(6x2=12)**

16. Differentiate constructors and selectors.

17. What is scope?
18. What is sorting?
19. What are the different modes that can be used to test python program?
20. What is set in Python?
21. What is class?
22. Differentiate unique and primary key constraint.
23. What is the use of modules?
24. Write a program to print all numbers from 1 to 5

PART - III

NOTE: Answer any six questions. Question No.33 is compulsory

(6x3=18)

25. Mention the characteristics of Interface
26. List the Characteristics of an algorithm
27. Explain Ternary operator with example
28. Write the rules of local variable.
29. Explain Cartesian product with a suitable example.
30. What is the difference between reader() method and DictReader() class?
31. What is MINGW? What is its use?
32. Mention the difference between fetchone() and fetchmany()?
33. Write a program to display the following pattern

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PART - 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) LEGB rule with example.
35. a) Write a detail note on for loop (OR)
 - b) Explain the following built-in function
 - a) id() b) Chr() c) round () d) type() e) pow()
36. a) Explain about constructor and destructor with suitable example (OR)
 - b) Explain the different type of relationship mapping.
37. a) Write a SQL statement to create a table for employee having any five field and create a table constraint for the employee table (OR)
 - b) Differentiate Excel file and CSV file
38. a) Write any 5 features of Python (OR)
 - b) Explain the various buttons in a matplotlib window.