

VNR12CS

Virudhunagar District
Common Half Yearly Exam, December - 2024

Standard 12 COMPUTER SCIENCE

Time: 3.00 Hours

Marks: 70

I Answer all the questions

15 x 1= 15

1. The small sections of code that are used to perform a particular task is called
 - a) Subroutines
 - b) Files
 - c) Pseudo code
 - d) Modules
2. Which of the following functions that retrieve information from the data type?
 - a) Constructors
 - b) Selectors
 - c) Recursive
 - d) Nested
3. Which of the following security technique that regulates who can use resources in a Computing environment
 - a) Password
 - b) Authentications
 - c) Access control
 - d) Certification
4. Binary search is also called as
 - a) Linear search
 - b) Sequential search
 - c) Random search
 - d) Half-Interval search
5. Which of the following is not Logical operator?
 - a) and
 - b) or
 - c) not
 - d) assignment
6. The condition in the if statement should be in the form of
 - a) Arithmetic or Relational expression
 - b) Relational or Logical expression
 - c) Arithmetic or Logical expression
 - d) Arithmetic
7. Which of the following keyword is used to begin the function block?
 - a) Define
 - b) for
 - c) finally
 - d) def
8. Defining strings with in triple quotes allows creating
 - a) Single line strings
 - b) Multi line strings
 - c) Double line strings
 - d) Multiple strings
9. The keys in Python dictionary is specified by
 - a) = (equal)
 - b) ; (semicolon)
 - c) + (plus)
 - d) : (colon)
10. The following is the private class variable
 - a) __num
 - b) &&num
 - c) ##num
 - d) \$\$num
11. Which database model represents parent-child relationship?
 - a) Relational
 - b) Network
 - c) Hierarchical
 - d) Object
12. The clause used to sort data in a database
 - a) SORT BY
 - b) ORDER BY
 - c) GROUP BY
 - d) SELECT
13. A CSV file is also known as a
 - a) Flat File
 - b) 3D File
 - c) String File
 - d) Random File
14. The following is not a Scripting language
 - a) Java Script
 - b) PHP
 - c) Perl
 - d) HTML
15. Any change made in the values of the record should be saved by the command
 - a) Save
 - b) Save as
 - c) Commit
 - d) Oblige

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PART -II**II Answer any 6 questions and question no. 23 is compulsory****6 x 2 =12**

16. What is space time trade off?
17. What are keywords? Give example
18. Write a note on 'continue' statement in Python
19. Write about replace() function in Python
20. Write a python program using class to accept three sides of a triangle and print its area.
21. List and explain the components of a database?
22. What is the usage of IN keyword in SQL?
23. Explain fetchone() method with an example program
24. List some commonly used interfaces for wrapping

PART -III**III Answer any 6 questions and question no. 30 is compulsory****6 x 3 =18**

25. Mention the characteristics of Interface
26. Write note on Asymptotic notation
27. Write short notes on Arithmetic operators with examples
28. Write note on if..else structure
29. How recursive function works?
30. What are the differences between List and Tuple?
31. Explain Cartesian Product with a suitable example
32. Write any three DDL commands.
33. What is MinGw? What is its use?

PART -IV**IV Answer all the questions****5 x 5 =25**

34. Explain with example Pure and impure functions
(or)
Explain the types of scopes for variable or LEGB rule with example
35. Discuss about Linear search algorithm
(or)
Write a detail note on 'for' loop
36. Explain about string operators in Python with suitable example
(or)
Explain the different set operations supported by python with suitable example
37. Explain the different types of data model.
(or)
Write the different types of constraints and their functions.
38. Tabulate the different modes in CSV file with its meaning
(or)
What is the purpose of sys, os, getopt modules in python? Explain