

12

Register No.

Second Revision Examination - 2024  
COMPUTER SCIENCE

Marks : 70

Time : 3.00 Hrs.

PART - I

I. Answer all the questions

15 x 1 = 15

1. Which of the following are mandatory to write the type annotations in the function definition?  
a) {} b) () c) [] d) (<>
2. The data structure which is a mutable ordered sequence of elements is called  
a) Built in b) list c) tuple d) derived data
3. Which members are accessible from outside the class?  
a) public members b) protected members c) secured members d) private members
4. Two main measures for the efficiency of an algorithm are  
a) process and memory b) complexity and capacity c) time and space d) data and space
5. Which of the following is not a keyword in python?  
a) break b) while c) continue d) operators
6. Which amongst this is not a jump statement?  
a) for b) pass c) continue d) break
7. Pick the correct one to execute the given statement successfully, if \_\_\_\_\_ : print (x,' is a leap year')  
a) X%2 = 0 b) X%4 = 0 c) X/A = 0 d) X % 4 == 0
8. The subscript of string may be  
a) positive b) negative c) both (a) and (b) d) either (a) or (b)
9. Which of the following python function may 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. What is the acronym of DBMS?  
a) Data Base Management Symbol b) Data Base Managing System  
c) Data Base Management System d) Data Basic Management System
12. The command to delete a table including the structure is  
a) DROP b) DELETE c) DELETES ALL d) ALTER TABLE
13. The command used to skip a row in a CSV file is  
a) Next () b) Skip () c) omit () d) Bounce ()
14. A frame work for interfacing python and C++ is  
a) c types b) swig c) cython d) boost
15. The function that return the largest value of the selected column is  
a) MAX () b) LARGE () c) HIGH () d) MAXIMUM ()

PART - II

Note : Answer any six questions. Question No. 24 is compulsory

6 x 2 = 12

16. What is subroutine?

17. What do you mean by Namespaces?
18. Write short notes on Tokens?
19. Define Global scope?
20. What is instantiation.
21. Define control structure?
22. What is slicing?
23. What is the use of 'cd' command give an example.
24. What will be the value of x in the following python code?  
L = [2, 4, 6[1, 3, 5]]  
X = len (l)

PART - III

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

6 x 3 = 18

25. Differentiate pure and impure function.
26. Differentiate concrete data type and abstract data type?
27. How recursive function works?
28. Write a short about the following with suitable example.  
a) capitalize ( )  
b) swap (use)
29. What are the advantages of tuples over list?
30. What is the difference between select and project command?
31. Write a note on open ( ) function of python. What is the difference between the two methods?
32. Write any three uses of data visualization?
33. Using if....elif...else. statement write a suitable program to display largest of three members?

PART - IV

Answer all the question

5 x 5 = 25

34. a) Explain with an example interface and implementation.  
(OR)  
b) Tabulate the different file mode with its meaning.
35. a) Explain the bubble sort algorithm with example?  
(OR)  
b) Explain input ( ) and print ( ) functions with examples.
36. a) Write a program to display all 3 digit odd numbers.  
(OR)  
b) Explain the different set operations supported by python with suitable example.
37. a) Explain the scope of variable with an examples?  
(OR)  
b) Explain the different types of data model.
38. a) Write a brief about SQLITE and the steps used to use it. 2-15  
(OR)  
b) Explain in detail the types of pyplots using matplotlib. 3-16