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Padasalai's Centum Special Question Paper

COMPUTER SCIENCE - FULL PORTION EXAM - 4

Time : 3.00 hours

Max. Marks : 70

PART - I

Note : i) Answer all the questions**15x1=15**

ii) Choose the most appropriate from the given four alternatives and write the option code and corresponding answer

1. Which of the following is not the example of Modules?
a. procedures b. subroutines c. class d. functions
2. Two main measures for the efficiency of an algorithm are
(A) Processor and memory (B) Complexity and capacity
(C) Time and space (D) Data and space
3. separation is necessary between tokens.
a. ; b. dellimeter c. whitespace d. :
4. The output of the segment.....
for i in range(10,0,2)
 print(i)
a. 10 9 6 4 2 0 b. 10 8 6 4 2 c. 0 2 4 6 8 10 d. Error
5. What will be the output of the following code?
str="NEW DELHI"
str[3]="_"
a. NEW-DELHI b. NE-DELHI c. NEW DELHI d. NEW_DELHI
6. A=B|C is equivalent to.....
a. A=B.set(c) b. A=B.join(c) c. A=B.union(c) d. A.B.Set(c)
7. If List=[10,20,30,40,50] then List[2]=35 will result
(a) [35,10,20,30,40,50] (b) [10,20,30,40,50,35]
(c) [10,20,35,40,50] (d) [10,35,30,40,50]
8. Which of the following method is used as destructor?
(a) __init__() (b) __dest__() (c) __rem__() (d) __del__()
9. A table is known as
a) tuple b) attribute c) relation d)entity
10. Which command lets to change the structure of the table?
a. SELECT b. ORDER BY c. MODIFY d. ALTER
11. Which of the following module is provided by Python to do several operations on the CSV files?
(A) py (B) xls (C) csv (D) os
12. The module which allows you to interface with the Windows operating system is
(A) OS module (B) sys module (c) csv module (d) getopt module
13. Any changes made in the values of the record should be saved by the command
(A) Save (B) Save As (C) Commit (D) Oblige
14. Which is a python package used for 2D graphics?
a. matplotlib.pyplot b. matplotlib.pip c. matplotlib.numpy d. matplotlib.plt
15. Which of the following is a compound structure?
(A) Pair (B) Triplet (C) single (D) quadrat

PART – II**Note : Answer any six questions : Q.No 24 is compulsory 6x2=12**

16. What is a Tuple? Give an example.
17. Write the phases of performance evaluation of an algorithm.
18. What are keywords in python?
19. Write a program to display multiplication table for a given number.
20. What is meant by scope of variable? Mention its types.
21. What will be output of the following python code?

```
squares=[x**2 for x in range(1,11)]
print(squares)
```
22. Write the difference between table constraint and column constraint.
23. Write the command to populate record in a table. Give an example.
24. Compare remove(), pop() and clear() function in python.

PART – IV**Note : Answer any six questions : Q.No 33 is compulsory 6x3=18**

25. Identify which of the following are list, tuple and selector?
a) aree[1,2,34] b) arr(1,234) c) accetnum(n1)
d) display() e) display(num1) f) x:=[2,5,6,[5,6],8.2]
26. Discuss about algorithmic complexity and its types.
27. Write short note on escape sequence with examples.
28. Write a program in python to display the following output:

```
5 5 5 5 5
4 4 4 4
3 3 3
2 2
1
```
29. What is the use of format()? Give an example.
30. Write a SQL statement using DISTINCT keyword.
31. What are the applications of scripting languages?
32. What is SQLite? What is its advantage?
33. Write the output for the following program:

```
for word in "Jump Statement":
    if word == "e":
        break
print(word,end=' ')
```

PART – III**Note : Answer all the questions: 5x5=25**

34. How will you access the multi item? Explain with example. **(OR)**
Explain the characteristics of an algorithm.
35. Explain input() and print() functions with examples. **(OR)**
Explain the different types of function with an example.
36. Write the output for the following python commands:

```
str1="Welcome to Python"
a) print(str1)    b) print(str1[11:17])    c) print(str[11:17:2])    print(str[::4]) (OR)
```

Explain the different set operations supported by python with suitable example.
37. Explain the characteristics of RDBMS. **(OR)**
What is the purpose of sys, os, getopt module in python? Explain.
38. What is the use of Where clause? Give a python statement using where clause. **(OR)**
What are the key differences between histogram and bar graph?