Padasalai’s Telegram Groups!

(தலைப்புக்கள் அடிப்படையான விளையாட்டுக்கள் நற்பின்ன விளையாட்டுகள் தொடங்கும்!)

- Padasalai's NEWS - Group
  https://t.me/joinchat/NlCqVRBNj9hhV4wu6_NqA

- Padasalai's Channel - Group
  https://t.me/padasalaichannel

- Lesson Plan - Group
  https://t.me/joinchat/NlCqVWwo5iL-21gpzrXLw

- 12th Standard - Group
  https://t.me/Padasalai_12th

- 11th Standard - Group
  https://t.me/Padasalai_11th

- 10th Standard - Group
  https://t.me/Padasalai_10th

- 9th Standard - Group
  https://t.me/Padasalai_9th

- 6th to 8th Standard - Group
  https://t.me/Padasalai_6to8

- 1st to 5th Standard - Group
  https://t.me/Padasalai_1to5

- TET - Group
  https://t.me/Padasalai_TET

- PGTRB - Group
  https://t.me/Padasalai_PGTRB

- TNPSC - Group
  https://t.me/Padasalai_TNPSC
Note: Answer All the questions.

1. Which of the following defines what an object can do?
   (a) Operating system  (b) Compiler  (c) Interface  (d) Interpreter

2. A sequence of immutable objects as called ----
   (a) Built in  (b) List  (c) Tuple  (d) Derived data

3. Which of the following security technique that regulates who can use resources in a computing environment?
   (a) Pass word  (b) Authentication  (c) Access control  (d) Certification

4. From the following sorting algorithms which algorithm needs the minimum number of swaps?
   (a) Bubble sort  (b) Quick sort  (c) Merge sort  (d) Selection sort

5. In Python, ---- prompt indicates interpreter is ready to accept instruction.
   (a) >>  (b) >>>  (c) <<  (d) <<<

6. Which operator is called conditional operator?
   (a) Ternary  (b) Unary  (c) Binary  (d) Assignment

7. Which plays a vital role in Python programming?
   (a) Statements  (b) control  (c) Structure  (d) Indentation

8. Which of the following keyword is used to exit a function block?
   (a) Define  (b) return  (c) finally  (d) def

9. What is the output of the following instructions
   >>> str="THIRUKKURAL"
   >>> print(str[8:])
   (a) THIRUK  (b) THIRUKK  (c) KKURAL  (d) KURAL

10. How many data types in PYTHON
    (a) 3  (b) 4  (c) 2  (d) 5

11. Relational database was first proposed by
    (a) EF Codd  (b) EE Codd  (c) EF Cadd  (d) Ef Codder

12. The expansion of CRLF is
    (a) Control Return and Line Feed  (b) Carriage Return and Form Feed  (c) Control Router and Line Feed  (d) Carriage Return and Line Feed

13. A framework for interfacing python and C++ is
    (a) Ctypes  (b) SWIG  (c) CYTHON  (d) BOOST

14. Which SQL function returns the sum of a field?
    (a) TOTAL ()  (b) FIND ()  (c) AVG()  (d) SUM ()

15. Identify the package manager for Python packages, or modules:
    (a) Matplotlib  (b) PIP  (c) plt.show()  (d) Python package

Max. Marks: 70
PART - II

Answer any six questions. Q.No. 24 is compulsory. 6x2 = 12

17. What is a scope?
18. List down the factors for measuring execution time of an algorithm.
19. What are different modes of python programming?
20. What are Recursive functions?
21. What is the use of format ()? Give an example.
22. List the three ways of adding elements to the list.
23. Write the expansion of SWIG, and Min GW.
24. Define Data visualization.

PART - III

Answer any six questions. Q.No. 33 is compulsory. 6x3 = 18

25. What is a pair? Give example.
26. List the hierarchy of LEGB rule.
27. Write about jump statements.
28. What is a string in python?
29. List down some of the RDBMS packages.
30. What are the components of SQL.
31. What is CSV file? How will you read CSV file in python.
32. Write any three uses of Data visualization.
33. What is the purpose of fetchone () and fetchmany() functions.

PART - IV

Answer all the questions.

34. (a) Explain types of Scopes for variable.
(b) Define : Algorithm. Write down its characteristics and Asymptotic notation of algorithm.
35. (a) Write a python program to find factorial of n.
(b) Define : Loop and Explain the various types of LOOPs in python.

36. (a) Explain the various function used in strings.
(b) What are lists. Explain the various list functions in python.
37. (a) Write down the features of python over C++.
(b) What are the buttons in the output screen of Matplot.

38. (a) Read the mark table and answer the following queries using SQL.

<table>
<thead>
<tr>
<th>Exam No.</th>
<th>Name</th>
<th>M</th>
<th>P</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>12201</td>
<td>Anbu</td>
<td>76</td>
<td>67</td>
<td>56</td>
</tr>
<tr>
<td>12202</td>
<td>Babu</td>
<td>56</td>
<td>55</td>
<td>67</td>
</tr>
<tr>
<td>12203</td>
<td>Chandar</td>
<td>32</td>
<td>45</td>
<td>54</td>
</tr>
<tr>
<td>12204</td>
<td>Elumalai</td>
<td>55</td>
<td>65</td>
<td>57</td>
</tr>
<tr>
<td>12205</td>
<td>Mani</td>
<td>45</td>
<td>55</td>
<td>30</td>
</tr>
</tbody>
</table>

i) To display all the students who has got more than 35 in M.
ii) To display all the students who has got less than 35 in C.
iii) To insert a new record with 12206, MADHAVAN, 45, 54, 44.
iv) To delete Exam No. 12204.
v) To display only Exam No. and Name

b) Explain the various Database models.

OR

V/12/C.S/2

Send Your Questions and Answers to Our Email Id - padasalai.net@gmail.com