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# Tsi12CS

# **Tenkasi District**

# Common Half Yearly Examination - 2024



Standard 12

Time: 3.00 Hours

COMPUTER SCIENCE

Marks: 70

Part - I

i) Answer all the questions. 15x1=15

d) 49

d) Order By

- ii) Choose the most appropriate answer from the given four alternatives and
  - write the option code and the corresponding answer 1) The function which will give exact result when same arguments are passed
    - are called a) Pure function

b) Impure function

- c) Partial function
- d) Dynamic function
- Which of the following functions that retrieve information from the data type b) Destructors a) Constructors c) Selectros d) Recursive
- The process of subdividing a computer program into separate Sub-Programs is called
  - a) Procedural Programming b) Object oriented Programming
  - c) Event Driven Programming d) Modular Programming
- 4) The  $\theta$  (Theta) notation in asymptotic evaluation represents
- a) Average case b) Worst case c) Base case d) Null case 5) The symbol is used to print more than one item on a single line
- b) Semicolon(;) a) colon(:) c) comma(,) d) Dollar(\$)
- 6) Which of the following is known as definite loop?
- b) do...while c) for d) if...elif
- 7) Write the output of the following function >>>ord('1')
- a) 48 b) 50 c) 96
- 8) Which of the following is used as placeholders or replacement fields which get replaced along with format() function?
- a) < > b) { } d) \$
- 9) What will be the result of the following python code?
- >> S = [x\*\*3 for x in range(1, 6)]
- >>> Print(s)
  - a) [1, 3, 9, 27, 81] b) [1, 3, 6, 9, 18] c) [1, 8, 27, 64, 125] d) [3, 8, 16, 25, 125]
- 10) Class members are accessed through which character?
- b) & c) % d) #
- 11) Who is called Father of Relational Database?
- a) E.F. Codd b). Chris Date c) Chen d) Hugh Darwen
- 12) Which command in SQL used to restore the database to the last committed state c) Rollback
- b) commit d) Restore a) savepoint 13) Which of the following mode is used when dealing with non-text files like image or exe files?
  - b) csv mode c) Text mode d) Binary mode a) xls mode
- 14) getopt() will return an empty array if there is no error in splitting strings to b) argv variable c) opt variable d) i file variable a) args variable
- 15) Which of the following keyword avoid the duplicate?
- b) Where c) Group By a) Distinct
- Kindly Send Me Your Study Materials To Us Email ID: padasalai.net@gmail.com

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## Part - II

# Answer any 6 questions. Q.No. 24 is compulsory.

6x2=12

- 16) What is a subroutine?
- 17) What is mapping?
- 18) What are the different modes that can be used to test python program?
- 19) What are the main advantages of function?
- 20) What is dictionary in python? Write the syntax of defining a dictionary
- 21) What is normalization?
- 22) Mention the two ways to read a csv file using python
- 23) What is the advantage of declaring a column an "INTEGER PRIMARY KEY"
- 24) What will be the output of following python code?

A = 'Good Morning'

Print (A[::-3])

Part-III

Answer any 6 questions. Q.No. 33 is compulsory.

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6x3 = 18

- 25) Differentiate concrete datatype and abstract datatype
- 26) List the characteristics of an algorithm
- 27) List the differences between the break and continue statements
- 28) What is the use of format()? Give an example
- 29) Explain the difference between del and clear() in dictionary with an example
- 30) What are class members? How do you define it?
- 31) What is a constraint? Write a note on Default constraint
- 32) Differentiate python and C++
- Write the syntax for csv.writer() and explain its parameters

### Part - IV

## Answer all the questions.

5x5 = 25

34) a) Explain with example pure and impure functions

- b) Explain the LEGB Rule with example
- 35) a) Discuss about Linear Search algorithm

### (OR)

- b) Explain the different types of operators with example in python
- 36) a) Write a detail note on if...else...elif statement with suitable example

## (OR)

- b) Explain the following Built-in function in python
  - iv) round() ii) chr() iii) id() i) abs() v) pow()
- 37) a) What are the ways to incert an element in a list Explain with suitable example

## (OR)

- b) Explain the different types of data model
- 38) a) What is the purpose of sys, os, getopt module in python. Explain

## (OR)

b) Write in brief about SQLite and the steps used to use it.