

Tst12CS

Tenkasi District
Common Second Revision Examination - 2025



Standard 12
COMPUTER SCIENCE

Time: 3.00 Hours

Marks: 70

Part - I

I. Choose the best answer.

15x1=15

- 1) The functions which cause side effects to the arguments passed are called
 - a) Impure functions
 - b) partial functions
 - c) Dynamic functions
 - d) Pure function
- 2) Which members are accessible from outside the class?
 - a) Public members
 - b) Protected members
 - c) Secured members
 - d) Private members
- 3) From the following sorting algorithms, which algorithm needs the minimum number of swaps?
 - a) Bubble sort
 - b) Insertion Sort
 - c) Selection Sort
 - d) All the above
- 4) Which of the following shortcut is used to create new python program?
 - a) Ctrl + C
 - b) Ctrl+F
 - c) Ctrl+B
 - d) Ctrl + N
- 5) What plays a vital role in Python Programming?
 - a) Statements
 - b) Control
 - c) Structure
 - d) Indentation
- 6) Which of the following keyword is used to begin the function block?
 - a) define
 - b) for
 - c) finally
 - d) def
- 7) Which of the following operator is used for concatenation?
 - a) +
 - b) &
 - c) *
 - d) =
- 8) Let List1 = [2, 4, 6, 8, 10], then print (list 1[-2]) will result in
 - a) 10
 - b) 8
 - c) 4
 - d) 6
- 9) A private class variable is prefixed with
 - a) -
 - b) &&
 - c) ##
 - d) **
- 10) Which type of relationship does hierarchical model represents
 - a) one-to-one
 - b) one-to-many
 - c) many-to-one
 - d) many-to-many
- 11) Which command lets to change the structure of the table?
 - a) SELECT
 - b) ORDER BY
 - c) DCL
 - d) ALTER
- 12) The command used to skip a row in a csv file is
 - a) next()
 - b) skip()
 - c) omit()
 - d) bounce()
- 13) Which of the following is not a scripting language?
 - a) Javascript
 - b) PHP
 - c) Perl
 - d) HTML
- 14) Any changes made in the value of the record should be saved by the command
 - a) Save
 - b) Save as
 - c) Commit
 - d) Oblige
- 15) The data structure which is a mutable ordered sequence of elements is called
 - a) Built in
 - b) List
 - c) Tuple
 - d) Derived data

Part - II

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

6x2=12

- 16) Define function with respect to Programming language
- 17) What do you mean by Namespace?
- 18) What is searching? Write its types?
- 19) Write the syntax of If...else statement
- 20) What are the main advantages of function?
- 21) How will you access the List elements in reverse order?
- 22) What is the difference between SQL and MYSQL?
- 23) Mention the default modes of the file

Tsl12CS

2

24) Write the output of the following program

```
i = 10
while (i <= 15):
    print (i, end = '\t')
    i = i + 1
```

Part - III

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

6x3=18

25) Why strien is called pure function?

26) Identify which of the following are constructors and selectors

a) N1 := number () b) displaynum(n1) c) eval(a/b)
d) x, y := makeslope(m), makeslope(n) e) display()

27) Write shortnotes on Escape sequences with examples

28) Differentiate ceil() and floor() function?

29) What are the difference between List and Dictionary?

30) Explain cartesian product with a suitable example

31) Write the use of Savepoint command with an example

32) What is use of next() function?

33) Write the output of the following program

```
for word in 'computer':
```

```
    print(word, end = '')
```

```
else:
```

```
    print("\n End of the loop")
```

Part - IV

IV. Answer all the questions

5x5=25

34) a) What is a List? Why List can be called as pairs. Explain with example
(OR)

b) Explain the Bubble sort Algorithm with example

35) a) Discuss in detail about Tokens In Python
(OR)

b) Write a detail note on for loop

36) a) Explain the Scope of variables with an example
(OR)

b) Explain about string operators in python with suitable example

37) a) What the different ways to insert an element in a list. Explain with suitable example
(OR)

b) Explain the characteristics of RDBMS

38) a) Differentiate Excel file and CSV file
(OR)

b) What is the use of HAVING Clause. Give an example python script.

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XIIth Computer Science

Part - I

I. Choose the best answer

Q NO	Option	Answer
1.	a	impose junctions
2.	a	Public members
3.	c	Selection sort
4.	d	$C(i) + N$
5.	d	Indentation
6.	d	def
7.	a	+
8.	b	8
9.	a	-
10.	b	One-to-many
11.	d	ALTER
12.	a	next()
13.	d	HTML
14.	c	commit
15.	b	List of tuple b) List

Part - II

16. * A function is a unit code that is often defined with in a greater code structure (1) mark
* A function contains a set of code that works on many kinds of inputs, like variants expressions and produces a concrete output (1) mark

17. Name spaces are containers for mapping names of variables to objects. - 2 marks

18. To search an item in a data structure is known as searching (or)

Searching is the step-by-step procedure way to locate specific data among collections of data using any searching algorithm

- 1 mark

Types:

1. Linear search 2. Binary Search

1 mark

19

if < condition > :

Statements - block 1

else

Statements - block 2

2 marks

20.

* It avoids repetition and makes a high degree of code reusing 1 mark* It provides better modularity for your application. 1 mark

21.

* Python enables access or negative indexing for the list elements 1 mark

* Thus, the Python lists index in opposite order.

* The Python sets -1 as the index value for the last element in list and -2 for the pre coding element and so on. This is called as reverse indexing 2 marks

22.

SQL

MySQL

It is language used for MySQL is database management system. accessing database.

23.

The default is reading in text mode. In this mode, while reading from the file the data would be in the format of strings. 2 marks

24.

10 11 12 13 14 15 2 marksPart - III

25.

* The strlen is a Pde function because the function takes one variable as a parameter and accesses it to find its length. 1 1/2 marks* This function reads external memory but does not changes it, and the value returned derives from the external memory accessed. 1 1/2 marks
(or)strlen is a pure function because it does not modify the input string, has no side effects, and returns the same result for the same input. 3 marks

- 26) a) Constructors b) selectors c) selectors
 d) Constructors e) selectors. - 3 marks

27. * In Python strings, the backslash "\" is a special character, also called the escape character.
 \n - new line \t - tab \r - carriage return.

28. Any. Example - 3 marks
 ceil () floor ()
 Returns the smallest integer greater than or equal to x
 Point (math.ceil (26.7)) → 27 Returns the largest integer less than or equal to x
 Print (math.floor (26.7)) → 26 - 2 marks

Syntax (oo) suitable Example. - 1 mark

29. List Dictionary
1. List is an ordered set of elements. Dictionary is data structure that is used for matching one element (key) with another (value)
 2. The index values can be used to access a particular element. In a dictionary key represents index and key may be a number or a string.
 3. Lists are used to look up a value. Dictionary is used to take one value & look up another value.

(oo) Any 3 differences - 3 marks

30. * Cross Product is a way of combining two relations.
 * The resulting relation contains, both relations being combined.
 * A x B means A times B, where the relations A & B have different attributes.

TNPL

- 3 marks

31. * The Save Point Command is used to temporarily save a transaction so that you can roll back to the point whenever required.

* The different states of our table can be saved at anytime using different names and the roll back to that state can be done using the Roll back Command.

- 3 marks

32. The next() function returns the next item from the iterator.

It can also be used to skip a row of the cursor.

- 3 marks

33. Computer End of the loop

- 3 marks

Part - IV

IV 34. a) * List is constructed by placing expressions within square brackets separated by commas.

* List can store multiple values. Each value can be any type and can even be another list.

- 2 marks

* Any way of bundling two values together into one can be considered as a pair. Lists are a common method to do so. Therefore List can be called as Pairs.

- 2 marks

As suitable Example

(OR)

- 1 mark

b) Bubble sort.

Definition - 1 mark

pseudo code } 2 marks

example } 2 marks

25) a) Python breaks each logical line into a sequence of elementary Lexical components known as Tokens. The normal token types are - 1 mark

- * Identifiers
- * keywords
- * operators
- * delimiters
- * literals

An Explanation with suitable example

- 4 marks

b) for loop definition - 1 mark
 syntax - 2 marks
 Explanation } 2 marks
 Suitable Example }

- 36) a)
1. Local scope
 2. Global scope
 3. Enclosed)
 4. Built-in)

Explain each with suitable example 5 marks

(or)

Local scope (Rules & Relevant Example)
 Global) (Rules & Relevant Example)

- b)
- concatenation (+)
 - append (+ =)
 - Repeating (*)
 - Slicing
 - Stride

With Explanation

- 5 marks

37) a)

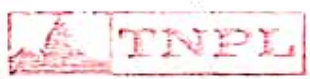
- append ()
- extend ()
- insert ()

} definition

- 2 marks

Syntax & Example

- 3 marks



- b) 1. Ability to manipulate data
2. Reduce Redundancy
3. Data consistency
4. Supports multiple users & concurrent access
5. Query language
6. Security
7. DBMS supports transactions

Explain Any 5

- 5 marks

38) a) Excel csv Any difference

- 5 marks

b) Having clause.
Definition
Example

- 5 marks

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