

**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 mode of the file

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 strlen 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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