

Tsi12CS

Tenkasi District
Common Quarterly Examination - 2024



26-09-2024

Standard 12
COMPUTER SCIENCE

Time Allowed: 3.00 Hours

Maximum Marks: 70

I. Choose the correct answer from the given four alternatives: 15×1=15

- 1) Which of following is a district syntatic block?
a) Subroutines b) Function c) Definition d) Modules
- 2) Which of the following data type that are direct implementations of a relatively simple concept?
a) Built-in data type b) Derived data type
c) Concrete data type d) Abstract data type
- 3) The process of sub-dividing a computer program into separate sub-program is called
a) Modular programming b) Object-oriented programming
c) Procedural programming d) Event driven programming
- 4) The θ notation in asymptotic evaluation represents
a) Base case b) Average case c) Worst case d) Best case
- 5) The python prompt indicates that interpreter is ready to accept instruction
a) >> b) >>> c) << d) <<<
- 6) The values which are passed to a function definition are called
a) Sub-routine b) Definition c) Arguments d) Parameters
- 7) Which statement is generally used as placeholder?
a) Pass b) Break c) Continue d) Goto
- 8) What is the output of the following function?
`print (math.floor (8.9))`
a) 8.0 b) 8.9 c) 8 d) 9
- 9) Strings in python:
a) flexible b) mutable c) immutable d) changeable
- 10) Which of the following python function can be used to add more than one element within an existing list?
a) `append()` b) `extend()`
c) `more()` d) `append_more()`
- 11) The process of creating an object is called as
a) Constructor b) Destructor c) Initialize d) Instantiation
- 12) Which method gets called automatically when we deleted the object reference using the del.
a) `--init--()` b) `--del--()` c) `--rem--()` d) `--func--()`
- 13) Let `setA = {3, 6, 9}`, `setB = {1, 3, 9}`. What will be the result of the following snippet?
`print(setA-setB)`
a) {1, 6} b) {6} c) {1, 3, 6, 9} d) {3, 9}
- 14) Which of the following is the output of the following code?
`str1 = "TamilNadu"`
`print(str1[::-2])`
a) TamilNadu b) Tmlan c) ulmT d) ualmT
- 15) In which arguments, the correct positional order is passed to a function?
a) Required b) Variable length c) Default d) Keyword

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II. Answer any six questions. Question No. 24 is compulsory:**6×2=12**

- 16) Define function with respect to programming language.
- 17) Differentiate constructors and selectors.
- 18) What is algorithmic solution?
- 19) Write short notes on Tokens.
- 20) What are the main advantages of function?
- 21) What is the use of lambda function?
- 22) Write any four formatting characters and its usage.
- 23) How will you access the list elements in reverse order?
- 24) What is the output of the following python code?


```
>>> squares = [x**2 for x in range (1, 6)]
>>> print(squares)
```

III. Answer any six questions. Question No. 33 is compulsory:**6×3=18**

- 25) Differentiate pure and impure function.
- 26) Define Global scope with an example.
- 27) Discuss about Algorithmic complexity and its types.
- 28) Write a short note on logical operator with examples.
- 29) What are the points to be noted while defining a function?
- 30) What is the use of format ()? Give an example.
- 31) What are the difference between List and Dictionary?
- 32) How do you define constructor and destructor in python?
- 33) Write a program to display

```
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
```

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IV. Answer all the questions:**5×5=25**

- 34) a) Explain with example pure and impure functions.
(OR)
b) What is List? Why List can be called as pairs? Explain with suitable example.
- 35) a) Write any five benefits in using modular programming.
(OR)
b) Explain the characteristics of an algorithm.
- 36) a) Describe in detail the procedural script mode programming.
(OR)
b) Write a program to display all three digit odd numbers.
- 37) a) Explain the different types of function with example.
(OR)
b) Write the output for the following python commands:


```
str1 = "Welcome to Python"
```

 - i) print(str1)
 - ii) print(str1[11:17])
 - iii) print(str1[11:17:2])
 - iv) print(str1[:4])
 - v) print(str1[:-4])
- 38) a) What is the purpose of range()? Explain with an example.
(OR)
b) Explain about constructor and destructor with suitable example.