

A

## COMMON QUARTERLY EXAMINATION - 2023

Standard - XII

Reg.No.

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Marks: 70

Time: 3.00 hrs.

COMPUTER SCIENCE

## PART - I

## I. All questions are compulsory:

15 × 1 = 15

- The variables in a function definition are called as \_\_\_\_\_.  
a) Subroutines    b) Function    c) Definition     d) parameters
- Which of the following is a compound structure?  
 a) Pair    b) Triplet    c) Single    d) Quadrat
- Containers for mapping names of Variables to objects is called \_\_\_\_\_.  
a) Scope    b) Mapping    c) Binding     d) Name spaces
- Binary search is also called as \_\_\_\_\_.  
a) Linear search    b) Sequential search  
c) Random search     d) Half - interval search
- Which of the following is used to describe the worst case of an algorithm?  
a) Big A    b) Big S    c) Big W     d) Big O
- Which of the following shortcut is used to create new python program?  
a) Ctrl + C    b) Ctrl + F    c) Ctrl + B     d) Ctrl + N
- Which operator is also called as Conditional operator?  
 a) Ternary    b) Relational    c) Logical    d) Assignment
- elif can be considered to be abbreviation of \_\_\_\_\_.  
a) nested if    b) if .... else     c) else if    d) if ... elif
- Which amongst this is not a jump statement?  
a) for     b) pass    c) continue    d) break
- Pick the correct one to execute the given statement successfully.  
if \_\_\_\_ : print ( X , " is a leap year")  
a) X% 2 = 0     b) X% 4 == 0    c) X / 4 = 0    d) X % 4 = 0
- Which of the following keyword is used to Exit a function block?  
a) define     b) return    c) finally    d) def
- Which of the following is the slicing operator?  
a) {}     b) []    c) <>    d) ()
- Which of the following is used as place holders or replacement fields which get replaced along with format () function?  
 a) {}    b) <>    c) ++    d) ^^
- Class members are accessed through which operator?  
a) &     b) .    c) #    d) %
- Let set A = {3, 6, 9} , set B = {1, 3, 9}. What will be the result of the following snippet?  
Print ( set A / set B)  
a) {3, 6, 9, 1, 3, 9}    b) {3, 9}    c) {1}     d) {1, 3, 6, 9}

## PART - II

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

- Differentiate Constructors and selectors?
- What is mapping?

18. What is an Algorithm?
19. Write short notes on Tokens?
20. What is anonymous Function?
21. What are the main advantages of function?
22. What is set in python?
23. How will you create constructor in python?
24. What will be the output of the following python code?

```
Str 1 = "Welcome"
Print ( Str 1 * 4)
```

### PART - III

**III. Answer any six questions .Question No.32 is compulsory: 6×3=18**

25. Mention the characteristic of Interface?
26. Write a note on Asymptotic notation?
27. Define Global Scope with an example?
28. Write short notes on Arithmetic operator with examples?
29. Write note on range () function?
30. Differentiate ceil () and floor () function?
31. Write a short note about sort ()?
32. Write the syntax of while loop?
33. Write a python program to display the given pattern?

```
COMPUTER
COMPUTE
COMPUT
COMPU
COMP
COM
CO
C
```

```
str1 = 'COMPUTER'
indon = len(str1)
for i in str1:
    print(str1[:indon])
    indon -= 1
```

### PART - IV

**IV. Answer all the questions:**

**5×5=25**

34. a) What are called Parameters and write a note on
  - i) Parameter without Type
  - ii) Parameter with Type
 (OR)
- b) Write any five characteristics of modules.
35. a) Explain the Bubble sort algorithm with example? (OR)
- b) Describe in detail the procedure script mode programming.
36. a) Write a detail note on if ... else ... elif statement with suitable example. (OR)
- b) Explain the following built - in functions?
  - a) id ()
  - b) chr ()
  - c) round ()
  - d) type ()
  - e) pow()
37. a) Explain about string operators in python with suitable example? (OR)
- b) How will you facilitate data abstraction. Explain it with suitable example?
38. a) What is nested tuple? Explain with an example? (OR)
- b) Explain about Constructor and destructor with Suitable example?