



Reg.No.:

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COMMON QUARTERLY EXAMINATION - 2023
Std - XII

Time : 3.00 Hours

COMPUTER SCIENCE

Marks: 70

15 x 1 = 15

I. Choose the best answer:

- The variables in a function definition are called as
a) subroutines b) function c) definition d) parameters
- Which of the following functions that retrieve information from the data type?
a) constructors b) selectors c) recursive d) nested
- Containers for mapping names of variables to object is called
a) Scope. b) mapping c) binding d) namespaces
- Binary search is also called as
a) Linear search b) sequential search c) random search d) Half-Interval search
- Which of the following short cut 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 comparative operator?
a) Arithmetic 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 one is optional part in range function?
a) end b) step c) stop d) start
- Which function is called anonymous un-named function?
a) Lambda b) Recursion c) Function d) define
- Which of the following keyword is used to exit a function block?
a) define b) return c) finally d) del
- Which of the following operator is used for concatenation?
a) + b) & c) * d) =
- if list = [17, 23, 41, 10] then list.append (32) will result
a) [32, 17, 23, 41, 10] b) [17, 23, 41, 10, 32] c) [10, 17, 23, 32, 41] d) [41, 17, 10,32, 23]
- Let setA = {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}
- Class members are accessed through which operator?
a) & b) . c) # d) %
- Which of the following method is used as destructor?
a) -init- () b) --dest - () c) --rem-- () d) --del-- ()

II. Answer any six Questions. Q.No. 24 is compulsory:

16. Differentiate constructors and selectors.
17. What is mapping?
18. What is searching? Write its types.
19. Write short notes on tokens.
20. Write is the syntax of if--else statement.
21. Write the different types of functions.
22. Do you modify a string in python?
23. Differentiate del with remove.() function of list.
24. What will be the output of the following code?

```
for i in range (2, 11, 2);
print (i, end = ")
```

III. Answer any six questions. Q.No. 33 is Compulsory:

6 x 3 = 18

25. Differentiate pure and impure functions.
26. List the characteristics of an algorithm.
27. Explain ternary operators with examples.
28. List the difference between break and continue statements.
29. What is the use of format ()? Give an example.
30. Differentiate ceil () and floor () function:
31. How do define constructor and destructor in python?
32. List out the set operations supported by Python.
33. What will be the output of the following code?

```
squares = [x**2 for x in range (1, 11)]
print (squares)
```

IV. Answer all the questions in detail:

5 x 5 = 25

34. a) Explain with an example interface and implementation. (OR)
b) How will you facilitate data abstraction. Explain it with suitable example.
35. a) Explain the types of scopes for variable or LEGB rule with example. (OR)
b) What is Binary search? Discuss with example.
36. a) Discuss in detail about Tokens in Python. (OR)
b) Write a detail note on for loop.
37. a) Explain the following built-in functions.
i) id () ii) chr () iii) round () iv) type v) pow () (OR)
b) Explain about string operator in python with suitable example.
38. a) What are the different ways to insert an element in a list. Explain with suitable example. (OR)
b) Explain about constructor and destructor with suitable example.