

SETHU BHASKARA MATRIC. HR. SEC. SCHOOL

HALF YEARLY EXAMINATION - DEC 2019

COMPUTER SCIENCE - ANSWER KEY

STD: XII

PART - I

CHOOSE THE BEST ANSWER:

[15 x 1 = 15]

1. (a) arguments
2. (d) Abstract datatype
3. (c) =
4. (c) Memorization
5. (d) <>
6. (b) Continue
7. (a) -38
8. (b) Multiline strings
9. (a) The extend() function is used in tuple to add elements in a list.
10. (a) ~~Constructor~~ d) Instantiation
11. (b) EFCodd
12. (c) ORDER BY
13. (a) wrapping
14. (d) Select
15. (b) PIP

PART - II

[6 x 2 = 12]

Answer any Six questions,

16. Subroutine :

Definition - 2 marks.

17. Searching :

method of finding particular value in a list - 1 mark.

Linear Search } - 1 mark.
Binary Search }

18. Tokens :-
 Python breaks each logical line into a sequence of elementary lexical components known as tokens. -(2 marks)

19. Program:-

```
i=1
while (i<=6):
    for j in range(1,i):
        Print (j, end='\t')
    Print(end='\n')
    i+=1
```

} (2 marks)

20. Advantages of Function:-

2 Advantages - (2 marks)

21. Chennai Chennai Chennai Chennai (2 Marks)

22. Python sets -1 as the index value for the last element in the list and -2 for the preceding element and so on. This is called Reverse indexing. (2 Marks)

23. Difference Between Python and C++.

2 difference - (2 marks)

24. Data Visualization:-

Graphical representation of information and data -(2 marks)

Part - III

[6x3=18]

25. It is a security technique that regulate who or what can view (or) use resources in a computing environment. minimizes risk. -(1) (or) Selective restriction of access to data - (1)

26. Break:-

It terminate the loop containing it (1 1/2)

Continue:-

To skip the remaining part of a loop and start with next iteration. (1 1/2)

27. use of format():-

It is used for formatting strings. The {} are used as placeholders or replacement field which get replaced along with format(). (3)

28. Difference between List and Dictionary:-

3 points - 3 marks.

29. class odd-even: (3)

```

    even=0
    def check(self,num):
        if num%2==0:
            print(num," is even number")
        else:
            print(num," is odd number")

```

n=odd-even()

x=int(input("Enter a value:"))

n.check(x)

30. Constraint:-

Definition (1)

Primary Key Constraint: (2)

31. open() - to open a file.

This function returns a file object called a handle, (2) as it is used to read or modify the file accordingly.

difference between 2 methods (1)

32. SQLite:

It is a simple relational database system, (3) which saves its data in regular data files or even in the internal memory of the computer.

It is fast, rigorously tested, flexible, making it easier to work.

33. Uses of Data Visualization:

3 points - 3 marks.

Part-IV

[5x5=25]

34. Characteristics of Module:-

a. 5 characteristics - 5 marks.

b. Characteristics of Algorithm:-

5 characteristics - 5 marks.

35. Operators in Python:-

a. 5 operators - 5 marks with example.

b. if.. else .. elif:-

Definition -(1)

Syntax -(2)

example. -(2)

36. a. Scope of Variable:-

Local Scope, Rules, Example (2 1/2)

Global Scope, Rules, example. (2 1/2)

b. String operators in python:-

Concatenation

Append

Repeating

String slicing

Stride when slicing string.

} With example. - (5)

37. a. range():- definition -(1)

Syntax with explanation - (2)

Example. (2)

b. Data Model:-

5 data model - (5)

- 38.
- a.
- (i) `SELECT * FROM Student ORDER BY name ASC;` (1)
 - (ii) `SELECT * FROM Student WHERE Group = A2;` (1)
 - (iii) `SELECT * FROM Student ORDER BY Group;` (1)
 - (iv) `INSERT INTO Student VALUES (1010, 'xxx', 'y');` (1)
 - (v) `DELETE * FROM Student WHERE group = B1;` (1)
- b.
- (i) `mylist = [10, 20, 30, 40, 50, 60, 70, 80, 90, 100]`
`i = 0`
`while i < 10:`
 `Print(mylist[i])`
 `i = i + 1`
 - (ii) `len(mylist)` (1)
 - (iii) `mylist.extend([110, 120, 130])`
`Print(mylist)` (1)
 - (iv) `del mylist[4:7]`
`Print(mylist)` (1)
 - (v) `del mylist.` (1)

HANDLING TEACHERS:

1. Mrs. S.P. HELEN - *S.P. Helen*
12/12
2. Mr. L. AMALRAJ ANAND - *L. Amalraj Anand*
3. Mrs. S. SOWMITHRA - *S. Sowmithra*
19/12/19.

3 Copies

Md
19/12/19

