

Computer Science XII

MM 50

Unit 1st Test

Time : 2 Hr 30 M

*** Required**

1. Name *

2. Roll no. *

Write roll no of class 11

3. Kendriya Vidyalaya *

Mark only one oval. Kirandul Bacheli*Skip to question 4*

Python Basics

10 Marks

4. Select the correct order of the units of memory TB, KB, GB, MB.

1 point

Mark only one oval. TB>MB>GB>KB MB>GB>TB>KB TB>GB>MB>KB GB>MB>KB>TB

5. Which of the following is not a keyword

1 point

Mark only one oval.

raise

False

pass

goto

6. Write the type of tokens of the following: (i) True (ii) ;

1 point

7. Name the Python Library modules which need to be imported to invoke the following functions: (i) sin() (ii) randint ()

1 point

8. Which of the following is valid arithmetic operator in Python: (i) // (ii) ? (iii) % (iv) and

1 point

9. Identify mutable and immutable objects from following i) List ii) String ii) Dictionary iv) tuple

1 point

10. How many type of membership operators are supported by the Python? 2 points
Explain with suitable example.

11. 2 points

Find output:

If the List is :

```
SList = ['P', 'y', 't', 'h', 'i', 'n', ' ', 'L', 'i', 's', 't', ' ', 'S', 'l', 'i', 'c', 'e', '!']
```

1. SList[5:17]
2. SList[13:18]
3. SList[11:17]
4. SList[2: 6]

Skip to question 12

Functions

10 Marks

12. What do you understand by Keyword arguments? 1 point

13. Write any one difference between Actual parameters and formal parameters. 1 point

14. What do you understand by local and global scope of variables? How can you modify / change the value of a global variable inside a function? 2 points

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2 points

Observe the following Python code very carefully and rewrite it after removing all syntactical errors with each correction underlined.

```
DEF execmain():  
    x = input("Enter a number:")  
    if (abs(x)= x)  
        print("You entered a positive number")  
    else:  
        x=*-1  
        print("Number made positive:"x )
```

Files submitted:

16. Write the output of following python code

2 points

```
L1 = [1, 1.33, 'GFG', 0, 'NO', None, 'G', True]
val1, val2 = 0, ""
for x in L1:
    if(type(x) == int or type(x) == float):
        val1 += x
    elif(type(x) == str):
        val2 += x
    else:
        break
print(val1, val2)
```

17.

2 points

Study the following program and select the possible output(s) from the options (i) to (iv) following it. Also, write the maximum and the minimum values that can be assigned to the variable Y.

```
import random
X= random.random()
Y= random.randint(0,4)
print(int(X),":",Y+int(X))
```

(i) 0 : 0 (ii) 1 : 6 (iii) 2 : 4 (iv) 0 : 3

Skip to question 18

10 Marks

Text File Handling

18. Differentiate between file modes r+ and w+ with respect to Python. 1 point

19. Write a statement in python to open a text file "book.txt" in read mode using 'with' statement. 1 point

20. 1 point

Observe the following code and fill the blank with the statement to write "Kendriya Vidyalaya" in the file 'Mydata':

```
File = open("Mydata", "a")
```

```
File.close( )
```

21. Write a method/function BIGLINES() in Python to read lines from a text file CONTENT.TXT, and display those lines, which are bigger than 20 characters. 3 points

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Files submitted:

22. Write a function in python to count the number of lines in a text file 'lesson.txt' which is starting with an alphabet 'T' or 't'. 2 points

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Files submitted:

23. Write a function in python to count the number of lines in a text file 'myfile.txt' which is ending with a word 'bye' .

2 points

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Files submitted:

Skip to question 24

10 Marks

Binary and CSV File Handling

24. Select the Access Mode to open a Binary file for update some data.

1 point

Mark only one oval.

- ab
- wb+
- w+b
- All of the above

25. select the correct statement to import csv module

1 point

Mark only one oval.

- import csv
- from csv import reader
- from csv import *
- All of the Above

26. What do you mean by file?

1 point

27. Write a function to check whether the record of "Shankar" is present or not in the "Record.bin" file if the records are saved in the following format: [roll_no, name, class] 3 points

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Files submitted:

28. Write a program having two functions read_record() and write_record to read and write the record respectively in "Data.csv" file. 4 points

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Files submitted:

Skip to question 29

10 Marks

Python Libraries and Data Structure

29. Write the final output of a Stack for the following sequence of operations. Push 5, Push 6, Push 8, Pop, Push 9, Pop, Pop, Push 8. 1 point

30. When function calls another function then the details of previous function are stored in? 1 point

31. Write DoPush(Customer) and DoPop(Customer) methods/function in Python to add a new Customer and delete a Customer from a List of Customer names, considering them to act as push and pop operations of the Stack data structure. 4 points

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Files submitted:

32. What do you mean by python library? 1 point

33. What do you mean by Overflow and Underflow? 1 point

34. What is the difference between " import" statement and "from import" statement? 1 point

35. The _____ files are required to make Python treat directories containing the file as packages. 1 point

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