विद्या सर्वार्थि साधिका

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PERIODIC TEST -1

Class: XII

Subject: Computer Science (083) MM :40

Date :19-07-2024 Time: 1 Hr 30 Mins.

General Instructions:

1. There are 17 questions in this question paper. All questions are compulsory.
2. This question paper has four sections: Section-A, Section-B, Section-C and Section-D.
3. Section A - Q. No. 1 to 5 carry 1 mark each.
4. Section B - Q. No. 6 to 10 carry 2 mark each.
5. Section C - Q. No. 11 to 15 carry 3 marks each.
6. Section D - Q. No. 16 and 17 carry 5 marks each.

SECTION A

1. Consider the given code and fill in the blanks: (1)

```
list = ["Monday", "Tuesday", "Wednesday"]
indices = [0, 1, 2, 3]
for i in range(len(indices)):
   try:
      print(list[indices[i]])
   except _____:
      print("Check list of indices")
```

(A) IOException (B) ValueError (C) IndexError (D) TypeError

2. What is the position of the cursor when the file is opened in append mode? (1)

(A) end of the file (B) beginning of the file

(C) end of the record (D) beginning of the record

3. Which function is used to read all the lines of the file if a text file is opened in read mode? (1)

4. What is the use of finally block in exception handling in Python? (1)

5. Write difference between csv file and text file. (1)

SECTION B

6. Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code. (2)

```
f=open("Data.txt","r")
text=f.read[]
i=0
WHILE i < len(text) :
 if i=>25:
      print (text[i])
 else:
      print( i*2)
      i=i+1
close(f)
```

7 Write the output of the following code fragment: (2)

```
L1 = [100,900,300,400,500]
START = 1
SUM=0
for C in range(START,3):
    SUM = SUM + L1[C]
    print(C, ":", SUM)
    SUM = SUM + L1[0]*10
    print(SUM)
```

8. Which of the output(s) out of (A) to (D) will not be expected from the following code? Also, specify the maximum and minimum values that can be assigned to variable. (2)

```
x = 3
N = random.randint (1, x)
for i in range (N):
    print (i, "#", i + 1)
```

(A)
```
0 # 1
1 # 2
2 # 3
```

(B)
```
0 # 1
1 # 2
```

(C)
```
0 # 1
1 # 2
2 # 3
3 # 4
```

(D)
```
0 # 1
```

9. Considering the content stored in file "WORLDCUP.TXT", write the output: (2)

```
India won the Cricket world cup of 1983
f = open("WORLDCUP.TXT")
print(f.read(2))
print(f.read(2))
print(f.read(4))
```

10. Differentiate between DELETE and DROP table commands. (2)

SECTION C

11. Deepika has created a table Bank, help her to write SQL query to perform the following task: (3)
    (A) To add a column interest with data type numeric and size 10, 2 in a table BANK.
    (B) To remove all the rows from the table BANK. But she needs to maintain the structure of the table.
    (C) To remove column names address.

12. Write the output of the given code fragment (3)

```
Text1="Election-2024 "
Text2=""
I=0
while  I<len(Text1):
        if Text1[I]>="0" and Text1[I]<="9":
                Val = int(Text1[I])
                Val = Val + 1
                Text2 = Text2 + str(Val)
        elif Text1[I]>="A" and Text1[I] <="Z":
                Text2=Text2 + (Text1[I+1])
        else:
                Text2=Text2 + "*"
        I=I+1
print(Text2)
```

13. Write a python program to search the record from "data.csv" for a given admission number entered by the user. the structure of a record saved in "data.csv" is Adm_no, Name, Class, Section, Marks (3)

14. Differentiate between text file and binary file. (3)

15. Write SQL queries for (1) to (3), based on the table student given below: (3)

Table: Student

Roll No	Name	Class	DOB	Gender	City	Marks
1	Nandan	10	06-06-1995	M	Agra	551
2	Saurabh	12	05-07-1993	M	Mumbai	462
3	Sonal	11	05-06-1994	F	Delhi	400
4	Trisha	12	08-08-1995	F	Mumbai	450
5	Rohan	12	10-08-1995	M	Delhi	369
6	Manisha	11	12-12-1994	F	Dubai	250
7	Neha	10	12-08-1995	F	Moscow	377
8	Nishant	10	06-12-1995	M	Moscow	489

(1) To display records in alphabetical order
(2) To change marks of student to 355 whose roll no is 5.
(3) To remove student records whose marks are between 200 to 300.

SECTION D

16. Write a function COUNT() in Python to read contents from file "TECHNOLOGY.TXT", to count and display the occurrence of the word "to" or "so". (5)
For example: If the content of the file is "*Teleporting is to transfer matter from one location to a remote location, instantaneously, nearly so, without travelling through interstitial space*"
The function should display: Count of to, so is 3

17. Consider the following Binary file „Emp.txt", Write a function RECSHOW() to display only those records who are earning more than 7000 (5)

EMP NO	EMP NAME	EMP SALARY
1	AMAN	5000
2	BIPIN	9000
3	DINKAR	9900