Sou. Sushila Danchand Ghodawat Charitable Trust's
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MONTHLY TEST - 2
Class: XII Session: SEP 2021-22
Computer Science (Code 083)
(Theory: Term-1)

Maximum Marks: 35   **Time Allowed: 90 Minutes**

General Instructions:

• **The question paper is divided into 3 Sections - A, B and C.**

• **Section A, consist of 25 Questions (1-25). Attempt any 20 questions.**

• **Section B, consist of 24 Questions (26-49). Attempt any 20 questions.**

• **Section C, consist of 6 case study-based Questions (50-55). Attempt any 5 questions.**

• **All questions carry equal marks.**

QNO	SECTION -A
	This section consists of 25 Questions (1 to 25). Attempt any 20 questions from this section. Choose the best possible option.
1	Which of the following option is not correct? a. if we try to read a text file that does not exist, an error occurs. b. if we try to read a text file that does not exist, the file gets created. c. if we try to write on a text file that does not exist, no error occurs. d. if we try to write on a text file that does not exist, the file gets Created.
2	Which of the following options can be used to read the first line of a text file Myfile.txt? a. myfile = open('Myfile.txt'); myfile.read() b. myfile = open('Myfile.txt','r'); myfile.read(n) c. myfile = open('Myfile.txt'); myfile.readline() d. myfile = open('Myfile.txt'); myfile.readlines()
3	Assume that the position of the file pointer is at the beginning of 3rd line in a text file. Which of the following option can be used to read all the remaining lines?

	a. myfile.read() b. myfile.read(n) c. myfile.readline() d. myfile.readlines()
4	A text file student.txt is stored in the storage device. Identify the correct option out of the following options to open the file in read mode. i. myfile = open('student.txt','rb') ii. myfile = open('student.txt','w') iii. myfile = open('student.txt','r') iv. myfile = open('student.txt') a. only i b. both i and iv c. both iii and iv d. both i and iii
5	Which of the following statement is incorrect in the context of binary files? a. Information is stored in the same format in which the information is held in memory. b. No character translation takes place c. Every line ends with a new line character d. pickle module is used for reading and writing
6	What is the significance of the tell() method? a. tells the path of file b. tells the current position of the file pointer within the file c. tells the end position within the file d. checks the existence of a file at the desired location
7	Which of the following statement is true? a. pickling creates an object from a sequence of bytes b. pickling is used for object serialization c. pickling is used for object deserialization d. pickling is used to manage all types of files in Python
8	Syntax of seek function in Python is myfile.seek(offset, reference_point) where myfile is the file object. What is the default value of reference_point? a. 0 b. 1 c. 2 d. 3
9	Syntax for opening Student.csv file in write mode is myfile = open("Student.csv","w",newline=''). What is the importance of newline=''? a. A newline gets added to the file b. Empty string gets appended to the first line. c. Empty string gets appended to all lines. d. EOL translation is suppressed

10	What is the correct expansion of CSV files? a. Comma Separable Values b. Comma Separated Values c. Comma Split Values d. Comma Separation Values
11	Which of the following is not a function / method of csv module in Python? a. read() b. reader() c. writer() d. writerow()
| 12 | Suppose content of 'Myfile.txt' is:<br><br>Twinkle twinkle little star<br>How I wonder what you are<br>Up above the world so high<br>Like a diamond in the sky<br><br>What will be the output of the following code?<br><br>```python
myfile = open("Myfile.txt")
data = myfile.readlines()
print(len(data))
myfile.close()
```<br>a. 3    b. 4    c. 5    d. 6 |
| 13 | Raghav is trying to write a tuple tup1 = (1,2,3,4,5) on a binary file **test.bin**. Cons following code written by him.<br><br>```python
import pickle
tup1 = (1,2,3,4,5)
myfile = open("test.bin",'wb')
pickle._____    #Statement 1
myfile.close()
```<br>Identify the missing code in Statement 1.<br>    a. dump(myfile,tup1)<br>    b. dump(tup1, myfile)<br>    c. write(tup1,myfile)<br>    d. load(myfile,tup1) |

14 A binary file employee.dat has following data

Empno	empname	Salary
101	Anuj	50000
102	Arijita	40000
103	Hanika	30000
104	Firoz	60000
105	Vijaylakshmi	40000

```
def display(eno):
    f=open("employee.dat","rb")
    totSum=0
    try:
        while True:
            R=pickle.load(f)
            if R[0]==eno:
                                        #Line1
                _____
                totSum=totSum+R[2]
    except:
        f.close()
    print(totSum)
```

When the above mentioned function, display (103) is executed, the output displayed is 190000.
Write appropriate jump statement from the following to obtain the above output.

a. jump   b. break   c. continue   d. return

15 Suppose content of 'Myfile.txt' is

Humpty Dumpty sat on a wall
Humpty Dumpty had a great fall
All the king's horses and all the king's men
Couldn't put Humpty together again

What will be the output of the following code?

```
myfile = open("Myfile.txt")
record = myfile.read().split()
print(len(record))
myfile.close()
```

a. 24   b. 25   c. 26   d. 27

16	Suppose content of 'Myfile.txt' is
	Honesty is the best policy.
	What will be the output of the following code?
| | ```
myfile = open("Myfile.txt")
x = myfile.read()
print(len(x))
myfile.close()
``` |
	a. 5 b. 25 c. 26 d. 27
17	Suppose content of 'Myfile.txt' is
	Culture is the widening of the mind and of the spirit.
	What will be the output of the following code?
| | ```
myfile = open("Myfile.txt")
x = myfile.read()
y = x.count('the')
print(y)
myfile.close()
``` |
| | a. 2   b. 3   c. 4   d. 5 |
| 18 | Which of the following statement opens a binary file record.bin in write mode and writes data from a list lst1 = [1,2,3,4] on the binary file?

 a. with open('record.bin','wb') as myfile:
       pickle.dump(lst1,myfile)
 b. with open('record.bin','wb') as myfile:
       pickle.dump(myfile,lst1)
 c. with open('record.bin','wb+') as myfile:
       pickle.dump(myfile,lst1)
 d. with open('record.bin','ab') as myfile:
       pickle.dump(myfile,lst1) |

19	Suppose content of 'Myfile.txt' is

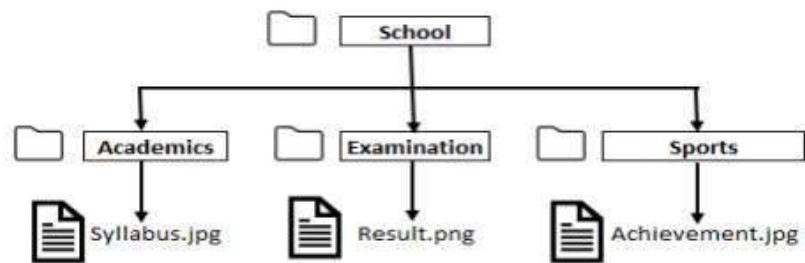Suppose content of 'Myfile.txt' is

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What will be the output of the following code?

```
myfile = open("Myfile.txt")
vlist = list("aeiouAEIOU")
vc=0
x = myfile.read()
for y in x:
    if(y in vlist):
        vc+=1
print(vc)
myfile.close()
```

a. 2   b. 3   c. 4   d. 5

---

20 Consider the following directory structure.

Suppose root directory (School) and present working directory are the same. What will be the absolute path of the file Syllabus.jpg?

a. School/syllabus.jpg
b. School/Academics/syllabus.jpg
c. School/Academics/../syllabus.jpg
d. School/Examination/syllabus.jpg

21	Assume the content of text file, 'student.txt' is: Arjun Kumar Ismail Khan Joseph B Hanika Kiran What will be the data type of data_rec? ``` myfile = open("Myfile.txt") data_rec = myfile.readlines() myfile.close() ``` a. string b. list c. tuple d. dictionary
22	Which function is used to write a list of string in a file? a) writeline() b) writelines() c) writestatement() d) writefullline()
23	In python what is the default EOL character ? a. EOL b. \t c. \n d. \r

24	In regards to separated value files such as .csv and .tsv, what is the delimiter?
	    a. Any character such as the comma (,) or tab (\t) that is used to separate the column data.
	    b. Delimiters are not used in separated value files
	    c. Anywhere the comma (,) character is used in the file
	    d. Any character such as the comma (,) or tab (\t) that is used to separate the row data

25	In separated value files such as .csv and .tsv, what does the first row in the file typically contain?
	    a. The author of the table data
	    b. The column names of the data
	    c. The source of the data
	    d. Notes about the table data

	Section-B
	This section consists of 24 Questions (26 to 49). Attempt any 20 questions.
26	Assume you have a file object my_data which has properly opened a separated value file that uses the tab character (\t) as the delimiter. What is the proper way to open the file using the Python csv module and assign it to the variable csv_reader?

	Assume that csv has already been imported.
	   a. csv_reader = csv.reader(my_data)
	   b. csv_reader = csv.tab_reader(my_data)
	   c. csv_reader = csv.reader(my_data, delimiter='\t')
	   d. csv_reader = csv.reader(my_data, tab_delimited=True)

27	When iterating over an object returned from csv.reader(), what is returned with each iteration?
	
	For example, given the following code block that assumes csv_reader is an object returned from csv.reader(), what would be printed to the console with each iteration?
	for item in csv_reader:
	   print(item)
	   a. The column data as a list
	   b. The individual value data that is separated by the delimiter
	   c. The row data as a list
	   d. The full line of the file as a string

28	When writing to a CSV file using the `.writerow()` method of the `csv.DictWriter` object, what must each key in the input `dict` represent? Below is an example:
	
	with open('test_file.csv', mode='w') as csv_file:
	
	  writer = csv.DictWriter(csv_file, fieldnames=['first_col', 'second_col'])
	  writer.writeheader()
	
	  # This input dictionary is what the question is referring
	  # to and is not necessarily correct as shown.
	  writer.writerow({'key1':'value1', 'key2':'value2'})
	   a. Each key must match up to the field names (column names) used to identify the column data
	   b. Each key must match up to the field names (index names) used to identify the row data
	   c. Each key indicates the column index as an integer for where the value should go

	d. Each key indicates the row index as an integer for where the data should go
29	Which of the following function flushes the files implicitly? a. flush() b. close() c. open() d. fflush()
30	Which of the following file types can be opened with notepad as well as ms excel? a. Text Files b. Binary Files c. CSV Files d. None of these

31	Ms. Suman is working on a binary file and wants to write data from a list to a binary file. Consider list object as l1, binary file suman_list.dat, and file object as f. Which of the following can be the correct statement for her?
	    a) f = open('sum_list','wb')
	       pickle.dump(l1,f)
	    b) f = open('sum_list','rb')
	       l1=pickle.dump(f)
	    c) f = open('sum_list','wb')
	       pickle.load(l1,f)
	    d) f = open('sum_list','rb')
	       l1=pickle.load(f)

32	Which of the following is not a correct statement for binary files? a) Easy for carrying data into buffer b) Much faster than other file systems c) Characters translation is not required d) Every line ends with new line character '\n'
33	To read the entire remaining contents of the file as a string from a file object f, we use _____ a) f.read(2) b) f.read() c) f.readline() d) f.readlines()
34	How do you get the current position within the file? a) f.seek() b) f.tell() c) f.loc d) f.pos
35	The readlines() method returns _____ a) str b) a list of lines c) a list of single characters d) a list of integers
36	To open a file c:\text.txt for writing, we use _____ a) outfile = open("c:\test.txt", "w") b) outfile = open("c:\\test.txt", "w") c) outfile = open(file = "c:\test.txt", "w")

	d) outfile = open(file = "c:\\test.txt", "w")
37	Change the file position to an offset value from the starting position. a) fp.seek(offset, 0) b) fp.seek(offset, 1) c) fp.seek(offset, 2) d) none of the mentioned
38	Command to delete a file. a) del(fp) b) fp.delete() c) os.remove('file') d) os.delete('file')
39	Which of the following statements are true? a) When you open a file for reading an error occurs, if the file does not exist b) When you open a file for writing a new file is created, if the file does not exist c) When you open a file for writing, the existing file is overwritten with the new file, if the file exists, d) All of the mentioned
40	What is the correct syntax of rename() a file? a) rename(current_file_name, new_file_name) b) rename(new_file_name, current_file_name,) c) rename(()(current_file_name, new_file_name)) d) none of the mentioned
41	What is the use of seek() method in files? a) sets the file's current position at the offset b) sets the file's previous position at the offset c) sets the file's current position within the file d) none of the mentioned
42	What is the pickling? a) It is used for object serialization b) It is used for object deserialization c) None of the mentioned d) All of the mentioned
43	Which of the following syntax can't be used on text file with file object named fp? a. fp.seek(10) b.fp.seek(10,0) c.fp.seek(-10,1) d.fp.seek(fp.tell())
44	To set the file pointer 15 characters back from current position of the file object infile, we use _____ a.Infile.seek(-15,2) b.Infile.seek(-15,1) c.Infile.seek(infile.tell()-15,2) d.Infile.seek(infile.tell())

45	To open a file c:\scores.txt for appending data, we use _____
	     a) outfile = open("c:\\scores.txt", "a")
	     b) outfile = open("c:\\scores.txt", "rw")
	     c) outfile = open(file = "c:\scores.txt", "w")
	     d) outfile = open(file = "c:\\scores.txt", "w")

46	_____ is a process of storing data into files and allows to performs various tasks such as read, write, append, search and modify in files. a. File handling b. Data handling c) Multi Threading d)Multi Processing
47	_____ is function that is used to clear the buffer after write operation on a file. a.Write() b.Writelines() c.flush() d.clear()

48	To open a file Myfile.txt ,which is stored at d:\Myfolder, for WRITING , we can use
	    a. F=open("d:\Myfolder\Myfile.txt","w")
	    b. F=open(file="d:\Myfolder\Myfile.txt","w")
	    c. F=open("d:\\Myfolder\Myfile.txt","w")
	    d. F=open(r"d:\Myfolder\Myfile.txt","w")

49	Which of the following function is used to write LIST OF STRINGS in a file?
	    a. write()
	    b. writeline()
	    c. writelines()
	    d. write(all)

	Section-C **Case Study based Questions**
	This section consists of 6 Questions (50 -55) Attempt any 5 questions.
	Rohit, a student of class 12, is learning CSV File Module in Python. During exa he has been assigned an incomplete python code (shown below) to create a 'Student.csv' (content shown below). Help him in completing the code which cr desired CSV File. CSV File 1,AKSHAY,XII,A 2,ABHISHEK,XII,A 3,ARVIND,XII,A 4,RAVI,XII,A 5,ASHISH,XII,A

Incomplete Code

```
import _____                                          #Statement-1
fh = open(_____, _____, newline='')                    #Statement-2
stuwriter = csv._____                                  #Statement-3
data = [ ]
header = ['ROLL_NO', 'NAME', 'CLASS', 'SECTION']
data.append(header)
for i in range(5):
        roll_no = int(input("Enter Roll Number : "))
        name = input("Enter Name : ")
        Class = input("Enter Class : ")
        section = input("Enter Section : ")
        rec = [ _____ ]                               #Statement-4
        data.append(_____)                            #Statement-5
stuwriter. _____ (data)                               #Statement-6
fh.close()
```

50	Identify the suitable code for blank space in the line marked as Statement-1. a) csv file b) CSV c) csv d) cvs
51	Identify the missing code for blank space in line marked as Statement-2. a) "Student.csv","wb" b) "Student.csv","w" c) "Student.csv","r" d) "Student.cvs","r"
52	Choose the function name (with argument) that should be used in the blank space of line marked as Statement-3. a) reader(fh) b) reader(MyFile) c) writer(fh) d) writer(MyFile)
53	Identify the suitable code for blank space in line marked as Statement-4. a) 'ROLL_NO', 'NAME', 'CLASS', 'SECTION' b) ROLL_NO, NAME, CLASS, SECTION c) 'roll_no','name','Class','section' d) roll_no,name,Class,section
54	Identify the suitable code for blank space in the line marked as Statement-5. a) data b) record c) rec d) insert
55	Choose the function name that should be used in the blank space of line marked as Statement-6 to create the desired CSV File? a) dump() b) load() c) writerows() d) writerow()