Test Series -3

Time: 40 min **M.Marks: 25**

Topics: File Handling, Stack and Queue

Q1 In which of the following file modes the existing data of the file will not be lost?

rb, ab, w, w+b, a+b, wb, wb+, w+, r+ **[2]**

Q2 What will the output of the following code : **[1]**

```
f1 = open("test1.txt","r")
size = len(f1.read())
print(f1.read(5))
```

Q3 Differentiate between r+ and w+ with respect to Python file handling. **[1]**

Q4 Write a program to count and display the number of uppercase letters present in text file "Article.txt". **[2]**

Q5 Write a statement in Python to perform the following operations :

a) To open a text file "Book.txt" in read mode **[1]**

b) To open a binary file "Book.dat" in write mode. **[1]**

Q6 Write a program to count the words "to" and "the" present in a text file "Poem.txt". **[2]**

Q7 Write a program that copies a text file "source.txt" onto "target.txt" barring the lines starting with a "@" sign. **[2]**

Q8 Write a user-defined function in Python that displays the number of lines starting with the letter

'H' in the file Para.txt, if the file contains. **[2]**

Q9 Write a program to implement a stack for these book-details (book no, book name). That is, now each item node of the stack contains two types of information –a book no and its name. Just implemented push and display operations. **[2]**

Q10 Write a function in python , INSERTQ(Arr, data) and DELETEQ(Arr) for performing insertion and deletion operations in a Queue. Arr is the list used for implementing queue and data is the value to be inserted. **[2]**

Q11 Anis of class 12 is writing a program to create a CSV file "mydata.csv" which will contain user name and password for some entries. He has written the following code. As a programmer, help him to successfully execute the given task. **[2]**

```
import _____ # Line 1
def addCsvFile(UserName,PassWord): # to write / add data into the CSV file
        f=open(' mydata.csv','_____')#Line 2
        newFileWriter = csv.writer(f)
        newFileWriter.writerow([UserName,PassWord])
        f.close() #csv file reading code
def readCsvFile(): # to read data from CSV file
        with open('mydata.csv','r') as newFile:
newFileReader = csv._____(newFile) # Line 3
for row in newFileReader:
        print (row[0],row[1])
newFile._____ # Line 4
addCsvFile("Aman","123@456")
addCsvFile("Anis","aru@nima")
addCsvFile("Raju","myname@FRD")
readCsvFile() #Line 5
```

(a) Give Name of the module he should import in Line 1.

(b) In which mode, Aman should open the file to add data into the file

(c) Fill in the blank in Line 3 to read the data from a csv file.

(d) Fill in the blank in Line 4 to close the file.

(e) Write the output he will obtain while executing Line 5.

Q12 A binary file "Book.dat" has structure [BookNo, Book_Name, Author, Price]. [3]

i. Write a user defined function CreateFile() to input data for a record and add to Book.dat .

ii. Write a function CountRec(Author) in Python which accepts the Author name as parameter and count and return number of books by the given Author are stored in the binary file "Book.dat"

Q13

A binary file "STUDENT.DAT" has structure (admission_number, Name, Percentage). Write a function countrec() in Python that would read contents of the file "STUDENT.DAT" and display the details of those students whose percentage is above 75. Also display number of students scoring above 75%

[2]