KENDRIYA VIDYALAYA NO-2 DELHI CANTT-II SHIFT
MONTHLY TEST-AUGUST 2022
CLASS-XII(COMP SCI)

Time 1 ½ Hrs. **Marks :35**

Q1. Ashok Kumar of class 12 is writing a program to create a CSV file "empdata.csv" with empid, name and mobile no and search empid and display the record. He has written the following code. As a programmer, help him to successfully execute the given task. (5)

```
import csv #Line1
fields=['empid','name','mobile_no']
rows=[['101','Rohit','8982345659'],
      ['102','Shaurya','8974564589'],
      ['103','Deep','8753695421'],
      ['104','Prerna','9889984567'],
      ['105','Lakshya','7698459876']]
filename="empdata.csv"
with open(filename,'w',newline='') as f:
      csv_w=csv.writer(f,delimiter=',')
      csv_w._____ #Line2
      csv_w._____ #Line3
with open(filename,'r') as f:
csv_r=_____(f,delimiter=',') #Line4
ans='y'
while ans=='y':
      found=False
      emplid=(input("Enter employee id to search="))
      for row in csv_r:
            if len(row)!=0:
                  if _____==emplid: #Line5
                        print("Name : ",row[1])
                        print("Mobile No : ",row[2])
                        found=True
                        break
if not found:
print("Employee id not found")
ans=input("Do you want to search more? (y)")
```

(a) Name the module he should import in Line 1.
(b) Write a code to write the fields (column heading) once from fields list in Line2.
(c) Write a code to write the rows all at once from rows list in Line3.
(d) Fill in the blank in Line4 to read the data from a csv file.
(e) Fill in the blank to match the employee id entered by the user with the empid of record from a file in Line5.

Q2. Write a function VowelCount() in Python, which should read each character of a text file MY_TEXT_FILE.TXT, should count and display the occurrence of alphabets vowels. Example: If the file content is as follows: (3)

Updated information As simplified by official websites.

The VowelCount() function should display the output as:

A or a:4 E or e :4 I or I :8 O or o : 0 U or u: 1

Q3. Write a function in Python that counts the number of "Me" or "My" words present in a text file 'MY_TEXT_FILE.TXT". Note: (The comparison should be case insensitive) (3)

Q4. A binary file "Item.dat" has structure (Item_code, Item_name, Qty, Unit_Price). (5)

i. Write a user defined function CreateFile() to input data for a record and add to Item.dat .
ii. Write a function Balance(BAL) in Python that would read contents of the file "Item.dat" and display the details of those items in which Qty is more than BAL. Also display number of such accounts.

Q5. A binary file "Employee.dat" has structure [Emp_ID, Emp_Name, Salary, Mobile]. (5)

I. Write a user defined function CreateFile() to input data for a record and add to Employee.dat .
II. Write a function TotalSalary() in Python which return the sum of salary of all the employees stored in the binary file "Employee.dat"

Q6. Ravi Kumar of class 12 is writing a program to create a CSV file "user.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. (4)

```
Import  csv
def addCsvFile(UserName,PassWord): # to write / add data into the CSV file
        f=open('user.csv',' __') # Line1
        newFileWriter = csv.writer(f)
        newFileWriter.writerow([UserName,PassWord])
        f.close() #csv file reading code
def readCsvFile(): # to read data from CSV file
        newfile=open(' user.csv','r')
        newFileReader = csv._____ (newFile) # Line 2
        for row in newFileReader:
                print (row[0], row[1])
        newFile._____. # Line3
addCsvFile("Pooja","123@45")
addCsvFile("Sunil","aru@ma")
addCsvFile("Kiran","Heebal@123")
readCsvFile( ) # Line4
```

a) In which mode, Ranjan should open the file to add data into the file
b) Fill in the blank in Line 2 to read the data from a csv file.
c) Fill in the blank in Line 3 to close the file.
d) Write the output he will obtain while executing Line 4

Q7. Write a function in Python PushBook(Book) to add a new book entry as book_no and book_title in the list of Books, considering it to act as push operations of the Stack data structure. And write a function in Python PopBook(Book), where Book is a stack implemented by a list of books. The function returns the value deleted from the stack (5)

Q8. Write AddCustomer(Customer) method in Python to add a new customer, considering it to act as a PUSH operation of the stack datastructure. Also display the contents of the Stack after PUSH operation. Details of the Customer are : CID and Name. (3)

Q9. Write RemoveCustomer(Customer) method in Python to remove a Customer, considering it to act as a POP operation of the stack datastructure. Also return the value deleted from stack. (2)