

KENDRIYA VIDYALAYA SANGATHAN, LUCKNOW REGION
MONTHLY ASSESSMENT OF LEARNING (MAL) – AUGUST 2025

CLASS: XII

SUBJECT: COMPUTER SCIENCE (083)

TIME: 1 HOUR

MAX MARKS: 30

General Instructions:

- All questions are compulsory.
- Attempt questions as per the marks indicated.

Section A ($8 \times 1 = 8$ marks)

1. Which method reads all lines from a text file as a list?
a) read() b) readline()
c) readlines() d) write()
2. What does the r+ mode do in text file handling?
a) Read only b) Write only
c) Read and write d) Append
3. Which module is used to handle CSV files in Python?
a) pickle b) csv
c) os d) file
4. Which method is used to serialize objects in binary files?
a) load() b) dump()
c) write() d) append()
5. The method _____ is used to move the file pointer to a specific location in a text file.
6. _____ is used to write multiple lines into a text file.
7. The full form of CSV is _____ .
8. _____ is used to write a row into a CSV file.

Section B ($3 \times 2 = 6$ marks)

9. Write a Python code snippet to open a text file using the with clause and read its contents.
10. Write two differences between text files and binary files.
11. Write a Python code to write a row [16," Pradeep",67] into a CSV file using csv.writer().

Section C ($1 \times 3 = 3$ marks)

12. You are given a binary file named employee.dat that stores student records as dictionaries containing EName, ECode, and Esal such as {'EName': 'Aarav Sharma', 'Ecode': 101, 'Esal': 89000}. Write a Python program to Search for an employee by Ecode.

Section D ($2 \times 4 + 1 \times 5 = 15$ marks)

13. Vini has to create a newfile.txt from an existing text file named Anthem.txt which contains national anthem, but there is a misspelling of each occurrence of "jaya" as "japa", kindly write newfile.txt file with same Anthem replacing each occurrence of word "japa" as "jaya".
14. Write a Python program to create a binary file named inventory.dat that stores records of electronic items. Each record should be a dictionary containing ItemName, ItemCode, and Stock, such as: {'ItemName': 'Bluetooth Speaker', 'ItemCode': 201, 'Stock': 35}

The program should:

- Accept details of 3 items from the user.
- Store each item record in the binary file using the pickle module.

15. Rahul has been given a code to create a CSV file named records.csv, store student data (name, roll number, marks), and read and display the data. But while reading the code he finds that a few underlined parts of the code are missing. Help him fill in the blanks and complete the code.

```
import _____ #statement 1
# Student data to be stored
student_data = [ ['Aarav', 101, 92],
                  ['Abhinav', 102, 86],
                  ['Varun', 108, 74] ]
# Writing data to CSV file
with open('records.csv', 'w', newline='') as _____: #statement 2
    _____ = csv.writer(file) #statement 3
    writer._____ (student_data) #statement 4

# Reading and displaying data from CSV file
with open('records.csv', '____') as file: #statement 5
    reader = csv.reader(file)
    for row in reader:
        print(row)
```