SDM COLLEGE OF ENGINEERING & TECHNOLOGY, DHARWAD

Department of Computer Science and Engineering

Internal Assessment - 1

Course Title & Code: Advance C Programming (22PLC25E) | Sem: II (CSE, ISE)
Date : 14-06-2023 | Max. Marks : 20
Course Instructors: SSV, JCK, JDP | Duration : 1 Hr.

Note: 1. Answer any one question from **Q1** and **Q2**. **Q3 is compulsory**.

Q1.

a. Distinguish between the following declarations:

i. char a[10]="SDMCET";

ii. char *p="SDMCET"; **[Marks:4, CO1]**

b. Write a C modular approach program using pointers to check whether a given string is palindrome or not. **[Marks:6, CO1]**

Q 2.

a. Write a function maxmin() which returns maximum and minimum element of a given list of 'n' elements. Use this function to compute highest and lowest marks of 'n' students in a particular course. Process the array elements using pointers.

[Marks:10, CO1]

Q3.

a. Write a C modular approach program using pointers to swap 2 numbers and print the result in the calling function. **[Marks:6, CO1]**

b. i. What is a pointer? Explain with an example how pointers are initialized?

ii. What is the output of the following code?

```
int m[2],*p=m;
m[0]=100;
m[1]=200;
printf("%d%d", ++*p,*(p+1));
```

[Marks:2M+2M, CO1]