

University of Information Technology & Sciences (UITS)

Faculty of Science and Engineering

Department of CSE

Program: B.Sc. in CSE

Term Final Examination, Spring 2023

Course Title: Structured Programming Language

Course Code: CSE 111

Marks: 50

Time: 03 (Three) Hours

(Answer all questions)

1. a) You have to build a system that will keep track of the records of all Students of Batch 53 in the department of CSE. For each student you have to store name, Phone number, CGPA and address. Create a structure for this purpose. [05]
b) Suppose Array1={5,1,7,10,8} and Array2={2,9,10,3,5} are taken as input. Now Develop a program that prints Array3={7,10,17,13,13} as output [05]
2. a) Analyze the following program and explain the errors with correction. [05]

```
#include <stdio.h>
int main()
{
    int sum;
    int k=1;
    for(int i=1;i>=10;i++);
    {
        sum=sum+k;
        k++;
    }
    printf("The value of sum is %ld", &sum);
    return 0;
}
```


b) Develop a program in C to multiply two numbers using pointers. [05]
3. a) Illustrate call by value and call by reference with examples. [05]
b) Write a C program to print the following series $1^2+2^2+3^2+\dots+N^2$ using while loop. [05]
4. a) Write the output of the following module: [05]

```
{
int n,i;
char vill[10];
char city [20] =" Madras";
char town [20] =" Mangalore";
n=strcmp (city, town);
```

```

i=strlen(town);
strcpy(vill,town);
printf ("%d, %d",n,i);
printf ("%s", vill);
}

```

- b) Construct a C program to check whether an alphabet is vowel or consonant using switch case statement. [05]

5. a) Develop a user defined function that takes two number as input and returns the maximum number. [05]

- b) Design the following pattern that takes n=5 as input. [05]

```

5
56
567
5678
56789

```