

International Islamic University Chittagong
Department of Electrical and Electronic Engineering

Final Examination Spring-2020

Program: B.Sc. Engg. (EEE)

Course Code: **CSE-1105**

Course Title: Computer Programming I

Time: **5 hours** (Writing **4 hours 30 minutes** + **30 minutes** submission time)

Full Marks: **50** (Written 30 + Viva/Viva-Quiz-20)

[Answer each of the questions (1-5) from the followings; Figures in the right margin indicate full marks.]

SET-B-1-Matric ID- ODD

1(a). Why while statement is used? Compare while statement with the nested for statement. C01 **R,A** **02**

1(b). Convert the following program from do loop to for loop. C02 **R, A** **02**

```
#include <stdio.h>
```

```
int main () {  
    int c = 10;  
    do {  
        printf("value of a: %d\n", c);  
        c = c + 1;  
    }while( a > 20 );
```

```
    return 0;
```

```
}
```

1(c). What is difference between these two constants 80.09, 80.09f ? C02 **U,AN** **02**

2(a). a)What is the output of this program? C03 **R, A** **02**

```
#include <stdio.h>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
    static int i;
```

```
    for (i++; ++i; i++) {
```

```
        printf("%d ", i);
```

```
        if (i == 8)
```

```
            break;
```

```
    }
```

```
    return 0;
```

```
}
```

b)

What is the output of this C code?

```
#include <stdio.h>
```

```
void main()
```

```
{
```

```
    double k = 0;
```

```
    for (k = 0.0; k < 9.0; k++);
```

```
    printf("%lf", k);
```

<pre> } 2(b). What will be output if you will execute following c code? #include<stdio.h> #define var 3 void main(){ short num[3][3]={3,6,9,12,15,18,7,8,10}; printf("%d %d",*(num+1)[1],***(num+2)); } </pre>				C02	R, AN	02
2(c).	Write a program to find the average of n numbers using arrays.					02
3(a).	What are the advantages & disadvantages of using pointers in C?	C02	RCEU	02		
3(b).	Write a program to find the sum of all the elements of an array using pointers.	C02	CEU	02		
3(c).	How can we access a variable by using a pointer, explains with proper example.	C03	U,R	02		
4(a).	Compare between Array and Structure. Give the prototype of "Structure".	C02	R	02		
4(b).	Write down the basic file operation supported by C. Write short note on these function fopen(), fclose(), getc()..	C02	U	02		
4(c).	What is recursion?give an example.	C01	R,U	02		
5(a).	Address a function that takes a two-dimensional array as its argument also returns the sum of this array. Describe the function into main.	C02	R, A	02		
5(b).	Write a C program that will read the content of a file named Update.txt and write this content in reverse order in another file named past.txt.	C02	U,AN	02		
5(c).	Create a structure named company which has name, address, phone and no Of Employee as member variables. Read name of company, its address, phone and no Of Employee. Finally display these members' value.	C03	CEU	02		
6.	Viva/Viva-Quiz: The time of viva/viva-quiz will be declared in google classroom.					20