## International Islamic University Chittagong

Department of EEE
Final Examination
Course Code: CSE- 1105
Full Marks:50

Program: B.Sc. Engg. (EEE)
Semester: Autumn-2018
Course Title: Computer Programming I
Time: 02 hours 30 minutes

Figures in the right margin indicate full marks. Use separate script for each part.

### PART-A
*[Answer any __two__ questions from the followings]*

1(a). Why switch statement is used? Compare switch statement with the nested if..else statement    3

1(b). D      nested for loop. Write a program to print the following structure    4

```
      1
      01
      101
      0101
      10101
```

1(c). Convert the following program from for loop to while loop.    3

```
int i, n = 10;
for (i=0; i<n; i++)
    {
        printf ("I like for loop.\n");
        printf ("%d\n",i);
        printf ("I also like while loop.\n");    }
```

2(a). What is the important of an array? Explain the initialization of an array.    4

2(b). Write a program to sort data of a two dimensional array..    4

2(c). What will be output if you will exe        ....    2
```
#include<std
#define
                       [3][2]={  6,9,12,15,18};
        printf("%d  %d",  num+1)[1],**(num+2));
}
```

3(a). Write a program that explore the sum of following sequence using
1.2.3+2.3.4+3.4.5+.....................up to n term.up to n

3(b). Explain the initialization of two dimensional arrays.    3

3(c). Find errors, if any, in each of the following segment.    3

a) if (x + y = z && y > 0);
printf(" ");

b) if (code > 1);
a=b+c
else;
a=0
c) if (p<0) || (q<0);
printf(string is negative).

# PART-B

*[Answer any three questions from the followings]*

4(a). Pointer can create a perfect copy of a variable-explain with examp    3

4(b). Write a program using pointers to compute the sum of all el    nt    4
array

4(c). What will be the output of the program ?    3

```
     main()
                y, *z;
     y=&x;        me addr              byte size */
     z=y;
     *y++=*z++;
     x++;
     printf("x=%d, y=%d, z=%d\n", x, y, z);
     return 0;
}
```

5(a). Write a C program to add two distances entered by user. Measurement of    5
distance should be in inch and feet.(Note: 12 inches = 1 foot).using Structure..

5(b). Compare between Array and Structure. Give the prototype of "Union".    5

6(a). Write down the basic file operation supported by C. Write short note on th  e    5
function fopen(), fclose(), getc(), putc().

6(b). Write the types categories of a function with an example

6(c). What do you know about call by re               lue?    2

7(a). Explain the initialization of pointer variables.    4

7(b). Which of the statements is co          it the program?    2
```
int main()
{
    int i=10;
    int *j=&i;
    return 0;
}
```

7(c). What is recursion? give an example.    4