Shahjalal University of Science and Technology Department of Computer Science & Engineering 2nd Year 2nd Semester Examination, December 2012 Course Name: Introduction to Computer Language

(Answer any 4 questions taking 2 questions from each group)

Course No: CSE-203C, Credit: 2

Full Marks: 50

Part:A

```
Write the definition of statement and expression with example of C programming language.
                                                                                                                                                                                                                                             5
             Name 10 keywords
                                                                                                                                                                                                                                             2.5
             Explain how character data type ranges the value from -128 to +127?
                                                                                                                                                                                                                                             5
             Convert decimal 1057 to its corresponding binary and octal
                                                                                                                                                                                                                                             3.5+3
             Assume a=5, b=7, c=2, d='B'. Find out the value of followings:
                                                                                                                                                                                                                                             2+3
                                              ii) (a<b) && (c>1)∥ (d<'b')
                                                                                                                        |jjjjx=(b==5)|d==65)?a:c
             Simplify X=(A+ABC)AB And draw the block diagram using gate symbol.
            Write a program to calculate the 10 prime number from given number.
                                                                                                                                                                                                                                            4.5
            Describe the output that will be generated by the following C program.
                                                                                                                                                                                                                                             4
                       #include <stdio.h>
                       void main()
                        { int i=0, y=0;
                                                                                                                                                                                                                         78 × 78 C X C P 78 × 78 C C P 78 × 78 C C P 78 
                           for (i=1; i \le 10; i++)
                            \{if(i\%2 = =1)
                            y+=i;
                            else
                       printf("%d",y);
                       break;}
            printf("/n y=%d",y)
                                                                                                                        Part:B
         Mention all types of unary operator. Give an example of size of with output.
                                                                                                                                                                                                                                            3+1.5
                                                                                                                                                                                                    10
            Find the output of the following C code:
                                                                                                                                                                                                                                             .1
            #include<stdio.h>
            main()
            { int i;,
            for(i=1;i<=10;i++)
                \{if(i\%6==0).
             {break;}
            printf("%d\n",i); }}
            Write a C program to get the output as below(use iteration logic):
            13
            14
                       15 16
          Subtract 1000011 from 100011 using 1's complement method.
           Write a program that will calculate odd numbers from 10 mixed numbers.
                                                                                                                                                                                                                                            3
          Define the output of the following C code:
                                                                                                                                                                                                                                            3.5
                     #include<stdio.h>
                     void main {}
                              float i = 5, j=5.5, k;
                              k = (int)j*2;
                             printf("%.2f", k);
          Write a program for any number whose output is such as (5 is not fixed);
          0+5=5
          1+4=5
 2+3=5
          3+2=5
          4+1=5
          5+0=5
          Write the syntax of the switch statement.
a)
          Write a program to display the binary-weight serie 1+2+4+8+16.....+1024. Also show the sum of this
         Rewrite the following code using while statement.
            for(i = 0; i < 20; i++)
                                                                                                                                        #inelude Mordio.h>
                   if(i\%3 = = 0)
                    printf("%d"); }
```