ESC101 : Fundamental of computing

Solution of Quiz 1(B) **21 August, 2008**

Name :

Roll no : **Section:**

Question 1 (3 marks) What is the output of the following code ?

```
class manipulations
{
   public static void main(String args[])
   {
     int i,j,k;
     i = 20;
     j = i/3;
     i = 4/5*j + 1;
     k = 10*i;
     j = j + k;
     System.out.println(i);
     System.out.println(j);
     System.out.println(k);
  }
}
```

Answer :
1
16
10

Question 2 (5 marks) The following program is supposed to count the number of odd digits in an integer `n`. For example, for `n`=154, the answer is 2; for `n`=668, the answer is 0.
Fill in the blanks appropriately.

```
class product
{
   public static void main(String args[])
   {
     int n;
     // we assign some positive integer value to n here.
     int t = n;
     int d = 0;
     int count;
     count = 0;

     while(t > 0 )
     {

          d =  t%10 ;

          t =  t/10 ;

          if(d%2==1)

                 count =  count + 1 ;
    }
    System.out.println(``The number of odd digits in''+n+`` is ''+count);
  }
}
```

Question 3 (3 marks)
Consider the following program.

```
class if_else_example
{
   public static void main(String args[])
   {
      int n = 52;
      if(n%3==0)
          {
            if(n%5==0)
                System.out.println(``first'');
            else
                System.out.println(``second'');
          }
      else
          {
            if(n%2==0)
                System.out.println(``third'');
            else
                System.out.println(``fourth'');
          }
   }
}
```

1. What is the output of the program ?
Answer :
third

2. What would be the output of the program if `n` was assigned 31 ?
Answer :
fourth

3. What would be the output of the program if `n` was assigned 33 ?
Answer :
second