MODULE TEST

LOGIC BUILDING AND PROBLEM SOLVING

Subjective Section

(Marks - 40)

```
I. What will be the output of the following java codes? [10 X 2 =20]
(a) public class arrayoutput
      {
      public static void main(String args[])
      {
            int arr[] = {10, 20, 30, 40, 50};
            for(int i=0; i < arr.length; i++)</pre>
            {
                         System.out.print(" " + arr[i]);
            }
      }
(b) public class output
   {
```

```
public static void main(String args[])
            {
            String c = "Hello i love java";
            boolean var;
            var = c.startsWith("hello");
            System.out.println(var);
            }
   }
(c) public class Output
   {
        public static void main(String args[])
            {
            double x = 2.0;
            double y = 3.0;
            double z = Math.pow(x, y);
            System.out.print(z);
            }
   }
```

(d) public class selection_statements

```
{
            public static void main(String args[])
            {
            int var1 = 5;
            int var2 = 6;
            if ((var2 = 1) == var1)
                        System.out.print(var2);
            else
                        System.out.print(++var2);
            }
   }
(e) public class box
   {
            int width;
            int height;
            int length;
            int volume;
            void volume(int height, int length, int width)
            {
            volume = width*height*length;
```

```
}
    }
   public class Prameterized_method
   {
            public static void main(String args[])
            {
            box obj = new box();
            obj.height = 1;
            obj.length = 5;
                  obj.width = 5;
            obj.volume(3,2,1);
            System.out.println(obj.volume);
            }
    }
(f) public class output
   {
            public static void main(String args[])
            {
            String s1 = "Hello";
            String s2 = s1.replace('l','w');
```

```
System.out.println(s2);
            }
   }
(g) public class output
  {
      public static void main(String args[])
      String s1 = "Hello World";
      String s2 = s1.substring(0, 4);
      System.out.println(s2);
      }
 }
(h) public class output
   {
            public static void main(String args[])
            String s = "Hello World";
            int i = s.indexOf('o');
            int j = s.lastIndexOf('l');
            System.out.print(i + " " + j);
```

```
}
   }
(i) public class output
  {
            public static void main(String args[])
            {
            String chars[] = {"a", "b", "c", "a", "c"};
            for (int i = 0; i < chars.length; ++i)
                         for (int j = i + 1; j < chars.length; ++j)
                               if(chars[i].compareTo(chars[j]) == 0)
                                            System.out.print(chars[j]);
            }
   }
(j) public class output
  {
            public static void main(String args[])
            {
            String[] nums = new String[] { "1", "9", "10" };
            Arrays.sort(nums);
            System.out.println(Arrays.toString(nums));
```

}

II. Write Java Programs

[4 X5= 20]

- (a) To add two matrices using multi-dimensional array
- (b) To calculate average taking array elements from user
- (c) To extract the first digit from a positive integer using method
- (d) To display the middle character of a string