1. What is the main objective of program testing?
__________________________________________________________________________________
__________________________________________________________________________________

2. (a) Identify all the testing techniques you have used to create test cases.
__________________________________________________________________________________
__________________________________________________________________________________

   (b) Write test cases to test the code provided below. Identify which testing technique was used to generate
the test case.

   // Method to withdraw money from a bank account
   // The following variables are defined in the class and have the
   // following values: requiredMinimum = 50.0 and balance = 100;
   public void withdraw (double amount) {
      if ((balance - amount) < requiredMinimum) {
         System.out.println(“Insufficient funds”);
      }
      else{
         balance = balance - amount;
      }
   }

<table>
<thead>
<tr>
<th>Input Value</th>
<th>Expected Output Values</th>
<th>Testing Technique Used</th>
</tr>
</thead>
<tbody>
<tr>
<td>amount</td>
<td>amount</td>
<td>balance</td>
</tr>
<tr>
<td></td>
<td></td>
<td>requiredMinimum</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3. Have you ever used tools to support testing of programs? Circle your answer.  Yes  No

4. If you have answered “Yes” to Question (3), answer the following questions:
   a. List the names of the tools you have used.
      ________________________________________________
      ________________________________________________
b. List one tool in each of the following categories that you have used and indicate your level of proficiency corresponding to each tool on a scale of 1 - 5 with 1 = barely competent and 5 = extremely proficient:

<table>
<thead>
<tr>
<th>Category</th>
<th>Tool(s)</th>
<th>Proficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>i. Unit Testing</td>
<td></td>
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<tr>
<td>ii. Functional Testing</td>
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<tr>
<td>iii. Code Coverage</td>
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</tbody>
</table>

5. Do you know of any online resources that provide information on software testing? Yes No

6. If you have answered “Yes” to Question (5), answer the following questions:
   a. State the names of online resources.
      ________________________________________________________________
   b. State the type of materials (notes, lab exercises, tutorials etc.) found at each resource listed above.
      ________________________________________________________________
      ________________________________________________________________
      ________________________________________________________________
      ________________________________________________________________

7. How beneficial do you think it is to use tools to support testing of your programming assignments? __
   Use a scale of 1 - 5 with 1 = Not beneficial and 5 = Extremely beneficial

8. If you answered 2 or above to Question (7), state one reason for your answer.
   ________________________________________________________________
   ________________________________________________________________
   ________________________________________________________________

Thank you for completing the test.