Multiple-Choice Questions:

1. Which of the following is a *non-functional requirement*?

    a. The system enables users to place lunch orders.

    b. The system always responds to user clicks in less than one tenth of a second.

    c. The system displays a list of hotel vacancies.

    d. The system notifies the user when a new order arrives.

    e. None of the above

2. Which question does <u>non-functional</u> requirements answer?

    a. What does the system do?

    b. When does the system do it?

    c. Where does the system do it?

    d. Why does the system do it?

    e. How well does the system do it?

Solutions:

1. b

2. e

Multiple-Choice Questions:

1. Which of the following should a user story <u>not</u> do?

    a. Describe one thing the software needs to do for the customer

    b. Be short

    c. Discuss specific technologies

    d. Be written using language the customer understands

    e. None of the above

2. According to the INVEST mnemonic, which of the following is a good quality of a user story?

    a. USs are independent of one another

    b. USs have value to the customer

    c. USs are generally small

    d. All of the above

    e. None of the above

Solutions:

1. c

2. d

Problem: Think of the eCourseware system that we've used in class. Reverse engineer one user story that records a requirement for the system. You must apply the description template described in class, and your US must have the other attributes of good user stories, which we discussed in class.

Solution:

Many possible answers...

Here's the template:

"As a <who>, I want <what> <why>."

Here are some other good attributes:

- Describe one thing

- Use customers language

- Not be long essay

- Not use technical terms

Title: Animated Buttons	Title: Review Flight
Description: Use jQuery to animate buttons.	Description: A user will be able to leave a review for a shuttle flight they have been on.
Estimate: 2 days	Estimate: 20 days

Figure 1. Two example user stories.

Problem: Of the two user stories in Figure 1, which was better written? Explain your answer.

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Solution:

US Review Flight is better because it is customer oriented. US Animate Buttons talks about implementation techologies (jQuery) that the may know nothing about.

Question:

What two things are wrong with the following US description.

The interface will be implemented using jQuery.

Solution:

1. The US mentions specific implementation technologies (jQuery).

2. The US uses technical jargon (jQuery) with which the customer may not be familiar.

3. This US would be hard to estimate/plan ("S" in INVEST)

Problem: Of the two user stories below, which was better written? Explain your answer, citing two specific reasons one is better than the other.

Title: Rails Project Description: The system should be developed using Ruby on Rails, so that it will be less costly to develop and maintain. Estimate: 120 days	Title: Manage Ads Description: As a system administrator, I want to be able to manage ads, so that I can remove expired and erroneous ads. Estimate: 2 days

Solution:

"Manage Ads" is better written.

Problems w/ "Rails Project":

- Describes specific technologies (Rails)

- Not written in a way that a customer could understand

- Difficult/impossible to estimate

- Its large estimate (120 days) is unlikely to be very accurate

- Not a valuable requirement to the customer

Problems:

For the next two questions, consider the GitHub web app.

1. Reverse engineer a user story for some functionality provided by GitHub. You may omit the estimate and priority. Use the full template and style guidelines given in class.

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2. Describe two things that are wrong with this user story for GitHub functionality.

AJAX Profile Form
The update-profile form should use AJAX so that
when the user presses the "Update profile" button,
the data is saved, but the page does not reload.

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Solutions:

1.

Many possible answers. Here's the template:
Title: <verb> <noun>
Description: As a <who>, I want <what> <why>.

2.

(1) Mentions specific implementation technology (AJAX)
(2) Uses technical jargon (AJAX) that the customer
     might not understand
(3) Mention specific features of the user-interface
     design (button)