Test 1

**CS425 - Software Engineering**

**November 2, 2015**

**35 Points Total – Write answers for Problems 1 – 7 on the separate paper provided. Write the answer for Problem 8 on the back of this page.**

1. **(16pts)** **Use Case Description**

Create a Use Case Description for the following new feature for MUMScrum. For problem 1 show the basic success flow.

We want a Scrum Master to be able to generate and save a release report for his or her release which shows:

* 1. Each sprint for a release
  2. The user stories for each sprint.
  3. The user stories that are in the release backlog and are not assigned to a Sprint.

Only the Scrum Master assigned to this release can generate this report for this release.

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1. **(2pts) Describe an alternate flow for this use case.**
2. **(2pts) Describe a possible error flow for this use case.**
3. **(4pts)** **List** 4 analysis classes that will be used for this new Use Case that we have already defined as being used in our existing Use Cases for MUMScrum. For each analysis class indicate which analysis class stereotype it is. You do not have to create a VOPC or Sequence Diagram.
4. **(3pts)** **List** 3 analysis classes that will be new for this new Use Case. For each analysis class indicate which analysis class stereotype it is. You do not have to create a VOPC or Sequence Diagram.
5. **(2pts)**What is the purpose of Architecture Analysis Mechanisms? Give an example of an architecture analysis mechanism that we use for MUMScrum.
6. **(2pts)** For that analysis mechanism give an example of one effect it has on a Use Case Realization.

***(Problem 8 is on the back of this page)***

1. **(4pts)**In RUP we have:

* **Problems**
* **Needs**
* **Features**
* **Use Case Definition**

For these 4 items:

1. Assign a value of 1 thru 4 indicating the level of detail provided for each these items ( 1 is least detailed, 4 is most detailed.)
2. Indicate which of these items must be testable
3. Indicate the name of the RUP document each of these items are included in