

Each of the following questions shows a point value in parenthesis after the question. Answer any set of questions with a point total of 100 points. Please mark which questions you want graded below. Use only the space provided. *Do not attach additional sheets or use the back of the exam.*

Questions to grade (circle the appropriate number): **1 2 3 4 5 6** (If you leave this blank, questions 1-4 will be graded.)

1. Many studies have shown that Requirements Engineering is a major contributor to software failures. Identify the most common RE problems and describe approaches to solve these problems. (20 points)

2. Describe the characteristics of a good requirement. (20 points)

3. Identify the six major tasks of the Requirements Engineering process and provide a brief description of each phase. (40 points)

A.

B.

C.

D.

E.

F.

4. Which task of the Requirements Engineering process is most error prone? Why is this phase so error prone? What can be done to make it less error prone? (20 points)

5. Describe the relationship between the software lifecycle and the evolution of the system requirements. How should the software lifecycle selection be influenced by the expected evolution of the system requirements? (20 points)

6. Identify the major activities of requirements analysis and provide a brief description of each activity. (40 points)