



Student Name: .....Solution..... ID: ..... Grade: .....

1. List 4 principles of agile methods. (2 points)

**Sol:** Principles include:

- *Customer involvement*
- *Incremental delivery*
- *People not process*
- *Embrace change*
- *Maintain simplicity*

2. What are the shared characteristics of different approaches to rapid software development? (2 points)

**Sol:** Shared characteristics include:

- *The processes of specification, design and implementation are inter-leaved.*
- *The system is developed and delivered as a series of versions.*
- *User interfaces are often developed using an interactive development system that supports rapid UI development.*

3. Describe two important characteristics of extreme programming? (2 points)

**Sol:** Characteristics include:

- *Requirements are expressed as scenarios – develop story cards with customers*
- *Short releases – versions every day and releases to customers every two weeks*
- *Pair programming – collective ownership and responsibility for the system*
- *Test-first development – write the tests before writing the code and run the test as the code is being written*

4. What is a Scrum sprint? And show by graph the scrum process. (4 points)

**Sol:** A Scrum sprint is a planning unit in which the work to be done is assessed, features are selected for development, and the software is implemented.

