# CSC584 Assignment 3 – Questions

# Chapter 24: Quality Management

## Explain how standards may be used to capture organizational wisdom about effective methods of software development. Suggest four types of knowledge that might be captured in organizational standards.

## Assume you work for an organization that develops database products for individuals and small businesses. This organization is interested in quantifying its software development. Write a report suggesting appropriate metrics and suggest how these can be collected.

## Explain why program inspections are an effective technique for discovering errors in a program. What types of errors are unlikely to be discovered through inspections?

**Chapter 25: Configuration Management**

## Imagine a situation where 2 developers are simultaneously modifying 3 different software components. What difficulties might arise when they try to merge the changes that they have made?

## Discuss the difficulties that may arise when building a system from its components. Identify specific problems that might occur when a system is built on a host computer for some target machine?

## Describe 6 essential features that should be included in a tool to support change management processes.

## **Chapter 26: Process Improvement**

## What are the important differences between the agile approach and the process maturity approach to software process improvement?

## Describe three types of software process metric that may be collected as part of a process improvement process. Give one example of each type of metric.

## Give two advantages and two disadvantages of the approach to process assessment and improvement that is embodied in the process improvement frameworks such as the CMMI.