CSE 464: Software Quality Assurance and Testing
Midterm I Study Guide

Midterm I (In-Class, duration 60 minutes)

- -

Note: This Exam is a close book individual exam. However, you can bring your own cheat sheet 2 pages written (Typed is fine) front and back. In addition, you can bring one scratch paper (A4 size) and a pen/pencil.

This exam is on canvas using Lockdown browser (in-class, during the class time). No webcam needed. Topics: (Study the lecture notes, examples, another other reading material posted with lecture notes. Also, read the book sections related to following topics from the textbook)

1. Software Quality Assurance
(Module1)
What is software quality?
Quality Assurance Techniques
Role of software testing in quality assurance

2. Introduction to software testing
(Module 2)
Venn diagram view of software testing
Functional vs. Structural Testing
Black box vs. White box testing

3. Functional Testing
(Module 2,3,4, 5)
Equivalent classes
Boundary value analysis
Decision Table
Model based testing
Strengths, weaknesses, and applicability of above four techniques

4. Bug Management (Module
6)
Anatomy of a bug report
The bug workflow – main steps
The Weibull Curve

5. Code-based testing (Module 7)
 Control-flow graph , independent paths, Junit test cases based on Independent paths

Types of Questions
1. Multiple choice
2. T/F
3. Short Answer
   Example, you can expect questions such as given a situation, figure out the best testing Technique, identify test cases …etc