

Quiz 8 Study Guide

IT&C 210B

All quizzes in IT210 are selected response. That is, multiple choice, true/false, matching, and so forth. That means you don't need to memorize terms so long as you know their meaning. Nevertheless, this study guide uses open-ended questions to make it a more effective learning activity.

Quiz 8 covers Sessions 33 – 35. It has 14 questions and should take about 10 minutes. It is not an exam so lots of study should not be required. Just take a simple pass through this and look up anything that's not familiar to you.

The slide decks from the lectures are a good place to look for answers.

Mobile and Embedded Systems, Internet of Things (IoT)

Ubiquitous Computing is the idea that computer and internet technology may be embedded in nearly any device.

Suppose you have an existing website targeted at computers. The following strategies are ways to address mobile devices ordered from least to most effort. How is each accomplished?

- Responsive Website
- Dedicated Mobile Website
- Native Cross-Platform App
- Native App

Does an embedded system typically have more or less computing power than a laptop or phone?

Front-End Frameworks and Vue

What is the difference between imperative and declarative statements? Which of the following support declarative, imperative, or both?

- HTML
- CSS
- JavaScript
- PHP
- C#
- Python

When and for what purpose might you call a REST API from browser-side JavaScript?

In the MVVM model, the ViewModel *binds* data between the Model and the View. What does “bind” mean in this context?

Open Web Technology Standards

Do common and open standards encourage or discourage competition? Is that beneficial to consumers?

What kind of applications do the following Web Technology Standards enable?

- WebRTC
- SVG
- Canvas
- WebGL

What is the difference between raster (bitmap) graphics and vector graphics? How is scaling to large or small size affected by this difference? How is file size affected by this difference?

REST API