**These should all be typed, with the final document being submitted as a PDF.** Each question should have a 1/2 to 2 page response, depending on the number of points: 1/2 to 1 page for every 25 pts.

**Question 1 - 50 pts**

Topic: Agile Methodologies and DevOps

Your boss has asked you to give a briefing on Agile Methodologies specifically the Scrum Model.  In particular, how does being Agile help the company and what are the processes and roles involved in the Scrum Model.  State your assumptions about your "work environment" to setup the scenario. To establish common scenarios, pick one of the following products: A) An Online Media Streaming Service similar to Netflix, B) Embedded medical devices, such as insulin monitors, for use in a clinical/hospital setting, C) A cloud based API providing a speech recognition service, or D) A Content Delivery Network (CDN), such as Akamai, Limelight, Cloudflare, etc. 

Describe whether a DevOps culture and mindset, along with supporting tools would make sense to adopt at the same time when adopting Scrum, or not -- should DevOps be adopted as A) a prerequisite to Scrum, B) along with scrum, or C) not at all. Consider your "work environment" and what you are building, along with this helpful article;  <https://www.guru99.com/agile-vs-devops.html> 

**Question 2 - 25 pts**

**Topic Area  Build/own vs. buy ("as a Service") vs. BYOD in the context of software and hardware acquisition.**

Discuss the traditional computer lab setting (machines setup and configured by an on-site administrator) vs. moving to a virtual lab environment (such as a cloud based environment) vs. BYOD lab (laptops).  Discuss the pros and cons, considerations, etc. that you would use to make a recommendation for any of these environments.  Discuss both software and hardware considerations.

**Question 3 - 25 pts**

**Topic Area  IT Sourcing**

Your mid-sized company has recently won a huge contract with a client. The client needs a working product in six months. Your company does not have enough resources to get this project done within six months. Hiring more full-time employees is not an option for the company with the current budget constraints.

The CEO is looking at both in-sourcing and outsourcing options. Discuss and propose a suitable recommendation to your CEO. Discuss the pros, cons, considerations and how you came up with this recommendation.