Examination: Quiz 1 Duration: 20 min

Semester: Spring 2024 Full Marks: 15

CSE 470: Software Engineering

Name: ID: Section:

The cybersecurity team at "SecureNet Innovations" faced challenges in enhancing their network infrastructure. Recognizing the need for a robust cybersecurity solution, the team decided to collaborate with "CyberGuard Technologies," a well-known cybersecurity firm. Ayesha Malik, the project lead at "CyberGuard Technologies," assured "SecureNet Innovations" that their team is highly skilled cybersecurity experts. However, due to the frequently changing nature of cybersecurity threats, they proposed to follow a better SDLC model. Ayesha suggested that instead of having fixed requirements from the start, they would work in multiple versions and they would also have the opportunity of adding new requirements in the development time. This approach aligned with the fact that "SecureNet Innovations", was unsure about the specific requirements and technological tools needed for their project. Ayesha emphasized that even the development team might not have a clear picture of the technologies and algorithms to be used initially. To address this uncertainty, Ayesha proposed a flexible approach where the software would be delivered in multiple versions. Each version would allow for customer feedback and adjustments based on the evolving requirements. The team could also adapt to changing circumstances and prioritize features based on customer feedback. The collaboration between SecureNet Innovations and CyberGuard Technologies proved successful delivery of a robust cybersecurity solution.

| **1.** | **CO1** | 1. **Which** SDLC would Ayesha Malik select for the software development, and justify your choice? [5] 2. **What** considerations does "SecureNet Innovations" take into account when deciding to develop a software solution? [2] 3. After three days, "SecureNet Innovations" decided to implement only known requirements to minimize costs. Is the current model still the best choice? Justify or suggest and explain an alternative model if needed. [5] 4. If the team decides to create documentation after the development, **what** are the advantages and disadvantages of the chosen model in the above scenario? [3] | **15** |
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