Examination: Quiz 1 Duration: 20 min

Semester: Spring 2024 Full Marks: 15

CSE 470: Software Engineering

Name: ID: Section:

The IT team of "PetroTech Industries" had faced a challenge with the management of a crucial task. Recognizing the need for a software solution, the team started searching for the right partner and decided to collaborate with "Tech Solutions" a distinguished company known for its innovative approaches. As the research progressed, PetroTech Industries' IT team determined that the project's requirements were clearly defined and manageable, which could accelerate the development process. Due to time constraints, there was a need to deliver the whole product as soon as possible. Afif Ahmed, the team lead at "Tech Solutions" assured PetroTech that the company had a team of highly skilled engineers, well-trained to develop the project and stable necessary technological support. He proposed to follow an SDLC model which follows a special technique that would verify each phase through the creation of essential test cases during the analysis stage. This approach ensured that when it came time to validate the software, they could employ those test cases to conduct testing. Before entering the development phase, PetroTech Industries committed to the initial analysis and ensured that no changes would be made during the development time. The collaborative efforts between "PetroTech Industries" and "Tech Solutions" resulted in the successful and timely delivery of the software solution.

| **1.** | **CO1** | 1. **Which** SDLC would Afif Ahmed select for the software development, and justify your choice? [5] Ans : V model 2. In the scenario described above, **what** technique does Afif Ahmed mention?[2] Ans; Verification and Validation technique 3. After 3 days of working, the head of "PetroTech Industries" expressed to incorporate additional functionalities into the software. Based on the selected model, is it feasible to implement these changes? Justify your response. [5]   Ans: Not Possible   1. 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]   Ans; Adv and Disadv of V model | **15** |
| --- | --- | --- | --- |