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**Assignment II Requirement Engineering Process**

**Q1 (a)**

The process for Requirement Engineering varies from one organization to another. The factors that involved in the variability of requirement engineering process are: Technical Maturity, Organizational Culture, Disciplinary involvement and Application Domain. The requirement processes differ on the basis of above defined factors.

**Q1 (b)**

Coarse-grain activity model provides the core concept of how the requirement process should proceed. It gives the general overview of the requirement engineering process and what the activities is going to perform. Fined-grain activity model focuses on the detailed of a specific process which helps and improves the existing process. Both are important models for an organization to use in requirement engineering process because it document the requirement clearly and helps to easily understand the system which is going to be develop.

**Q1 (c)**

The major disadvantage of using waterfall model is that the new requirement can not be added in the system unless it completes the whole model. For requirement engineering process, the process of gathering requirement, documenting and validation must be implemented in a complete one-by-one phases and it is not possible to accommodate new requirement until the phases are complete. That’s why it is not an ideal model to use in detailed process of developing software as “Requirement are continuously changing with the span of time”

**Q1 (d)**

Spiral Model is realistic because it is easy to accommodate new requirements in developing the system. The process is moving in spiral phases which include: Requirement Elicitation, Negotiation, Documentation and Validation. After the phases are complete, the above requirement phase start again in the spiral manner through new requirements can be added and verified until the final requirement document is complete. Spiral model is suitable in building long term projects with frequently requirement changes.

**Q1 (e)**

The roles of people are important in requirement engineering process as they help and tell what the system is going to perform and what will the functionality in it. These roles of people are known as Stakeholder. They provide the information of domain, system functionality, organizational policies etc. Therefore, without the stakeholder, it is difficult to develop the system with correct functionality, so stakeholders are integral part of system development in requirement process.

**Q1 (f)**

The factors that are significant for improving the requirement engineering process are Quality improvement, Schedule reduction and Resource reduction. These factors help to reduce the process load and improve the requirement phases.