Name: Nafinur Leo

Id: 20-42195-1

**1. What is the most important potential 2 reasons for a software system being failed in your opinion? Justify your answer with proper explanation.**

-> One is, if the user's point of view is not taken into consideration while developing the IT project you are definitely calling in for trouble. So failure to find and engage the right users to participate in the software development process is extremely disastrous.

Second one, some managers are lured into the benefits of the latest available technology, and try to use it for their ongoing projects. This forces them to gravitate from the planning done at the design stage. This leads to the failure of the whole system, change in objectives, or failing to complete the project on time.

**2. How do you reduce the gap between oldest waterfall model and latest incremental development model? Justify your answer.**

-> The Waterfall model requires long time full proof plans which will not change with time progression and will be constant because it is very hard to go back. On the other hand latest models are incremental here we deliver customer many copies before we deliver the original software. V-model reduces the gap between the waterfall model and the latest incremental model. It’s an extended version of the waterfall model which associates the testing phase foe each development stage of waterfall model.

**3. How does agile method deal with the situation where software requirements change continuously?**

-> Agile allows to provide a better output, more quickly, through short and interactive sessions / sprints. Agile model is good at adapting to changes. In this model problems are broken into small pieces and though as mini projects. This helps in giving faster feedback and adapting to changes. When a new change is made, only a small part of the whole project needs to be worked on because it is divided into many parts. As a result the maintenance of new software requirements become easier. That is why agile method deals continuous change better than most other models.