ITMD: 511 Application Development Methodologies

Chapter 2: Software Processes

Exercise

1: Suggest the most appropriate generic software process model that might be used as a basis for managing the development of the following systems. Explain your answer according to the type of system being developed:

● A system to control anti lock braking in a car

● A virtual reality system to support software maintenance

● A university accounting system that replaces an existing system

● An interactive travel planning system that helps users plan journeys with the lowest environmental impact

2: Incremental software development could be very effectively used for customers who do not have a clear idea about the systems needed for their operations. Discuss

3: Explain why software testing should always be an incremental, staged activity. Are programmers the best people to test the programs that they have developed?

4: Suggest why it is important to make a distinction between developing the user requirements and developing system requirements in the requirements engineering process.

5: Suggest five possible problems that could arise if a company does not develop effective configuration management policies and processes

References