Software Engineering | 2001

PLG 8

PLA

PHQ12

State the advantages and disadvantages of
the evolutioning model of software development.

(8)

Is it more, or less, smitable than the waterfall
model for safety- witical projects?

(8)

If you were managing the evolution of a

safety- which product, what special steps would you
take for risk reduction or due diligence reasons? (4)

Model answer

first part is bookwork - software evolution is often the only way to do things, because of changing requirements/ environment / technology / product, even act ough it complicates management / wstring / tools etc

Second part - can be more snitable as it takes many iterations + much testing to get MTBF down. Also, there is a lot of benefit to be had from regression testing. The complexity airses from the difficulty of maintaining the safety case & heeping it in synch with bother the product and the environment Prival part - focus on the mechanics of the safety case