

Review Questions and Problems Chapter 2

1. Briefly describe the five *process areas* according to the V-Model XT.
2. What is the *magic triangle of project management*? Discuss.
3. What is the purpose of the *project manual*? What is the difference between the *project manual* and the *project plan*?
4. What is the *fundamental law of configuration management*?
5. What is a *branch* in the context of configuration management? What is it good for? What are the drawbacks of using branches?
6. Sketch the standard *project directory structure* and explain what is contained in each directory.
7. Explain some of the disadvantages of the *Lock-Modify-Unlock* approach in centralized configuration management systems.
8. Explain where the *Copy-Modify-Merge* approach in centralized configuration management systems does not work well.
9. Consider the following scenario: Jim checks out a Word document adoc.doc from the *repository* into his *local workspace*, and edits chapters 4 and 5. Later Jane checks out the same document and works on chapters 2 and 8. Jim checks the document back in. What exactly happens when Jane wants to check back her changes, and what does she have to do to get the desired result?
10. Consider the following scenario: Jim checks out a C-language source file main.c from the repository into his local workspace, and edits functions f1 and f2. Later Brooke checks out the same file and works on functions f5 and f6. Brooke checks her file back in. What exactly happens when Jim wants to check back his changes, and what does he have to do to get the desired result?
11. Explain the difference between *product* and *process quality*. Why would process quality be important?
12. Would you rather carry out *black box tests* or *white box tests* if you were ultimately responsible for the safety of a product? Please state your reasons.
13. What is the goal of *requirement engineering*?
14. What are the *core activities* in our *requirements engineering reference model*?
15. Explain the difference between a *solution concept* and a *solution*. Give examples.
16. What is the difference between *customer requirements & context* and *registered requirements*? Why would you need to register requirements within your development organization?