**Test 2 Revision questions**

Chapter4:

9. For what type of project would you utilize COTS, formal methods and AOSD?

10. What are potential short comings of using formal methods?

11. Use the diagram below to explain how you would develop software using UP:

 12. Having viewed the diagram for the UP, design your own diagram to show the iterative and incremental nature of the UP

13. What is the difference between UML and UP?

14.Differentiate between PSP and TSP

15. Read: <http://software-engineering-fundamentals.blogspot.com/> In TSP, what is a script?

**(ch5)**

1. Explain the four core agile values listed on agilemanifesto.org
2. Why are agile models better equipped to deal with changing business requirements?
3. Explain this diagram:

1. Create user stories for an online shopping cart
2. Create test cases for these user stories
3. ~~Explain how a project manager would utilise a burn down chart and team velocity.~~
4. Draw a simple diagram for XP. Explain the phases. What practices/work products are done during each phase?
5. How does IXP extend XP?
6. Draw a simple diagram for Scrum. Explain the phases. What practices are done at different stages of the process model?
7. Provide a list and brief explanation of the main work products in Scrum.
8. Draw a simple diagram for DSDM. Explain the purpose of each iterative cycle.
9. What are the major principles for agile modelling?
10. What is the relationship between UP and AUP?
11. Textbook questions: 5.4; 5.6
12. When making a choice between Agile and Classical, what project attributes would you examine?
13. Compare XP to Scrum. What process model is better suited for the DS3 project? 3 point discussion.

**(ch6)**

1. What are the characteristics of a good software engineer?
2. Explain fig6.1 in your textbook
3. List the roles of a software team
4. What leads to a jelled team? What leads to a toxic team?
5. Draw simple diagrams to showcase the team organization paradigms
6. What type of project is best suited to each team organization?
7. How is an agile team different from a normal team?
8. What are 3 potential challenges of agile team organization?
9. How would you achieve the five values of an XP team?
10. List the social media that supports SE work. How does each support SE work?
11. List 3 dangers of high dependency on social media
12. What SE activities would cloud support?
13. Explain figure 6.2 in your textbook