Chapter Quiz

Chapter 3: Agile Software Development

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Answer all questions. 1 mark per question

1. What are the shared characteristics of different agile methods of software development?

The processes of specification, design and implementation are inter-leaved

The system is developed and delivered as series of increments or versions

2. For what types of system are agile approaches to development particularly likely to be successful?

Small and medium sized software product development where specification is controlled by the software development company

3. List the 5 principles of agile methods.

- ❖ *Customer- involvement*
- ❖ *Incremental delivery*
- ❖ *People not process*
- ❖ *Embrace change*
- ❖ *Maintain simplicity*

4. List 4 questions that should be asked when deciding whether or not to adopt an agile method of software development.

Is an incremental delivery strategy realistic?

What type of system being developed?

How the development team organized?

How large is the system that being developed

5. Name three important agile techniques that were introduced in extreme programming?

Refactoring

Pair programming

Test-first development

6. What is test-first development?

When system feature us identified the test of the code implementing that feature are written before the code.

Tests are automated and all test are run when a new increment is added to system

7. What are the possible problems of test-first development?

Some tests can be difficult to write increment Programmers may take short cut when developing test so that the system test are incomplete

Some test difficult to write incrementally

8. Why has the Scrum agile method been widely adopted in preference to methods such as XP.

Agile methods such as XP adopt an informal approach to planning and control that is inconsistent with organizational management policies

Scrum was designed as managed method and provides a framework for project organization and external visibility of work done

9. What is a Scrum sprint?

A short planning unit in which to be done is assessed features are selected for development the software is implemented and delved to system stakeholders

10. What are the barriers to introducing agile methods into large companies?

Project manager may reluctant to accept the risks of new approach.

The established quality procedures in large companies may be in compatible with informal approach to documentation in agile methods

The existing trams may not have the high level of skills to make use of agile methods

There may be cultural resistance if there is long history of plan driven development on the company