



1.2.3 Development Methodologies

1. A software development team is writing a word game. The team is using Rapid Application Development (RAD).

a) Describe the Rapid Application Development process.

[4 marks]

b) Describe **two** benefits of using RAD.

[4 marks]

2. A company develops anti-virus software which needs continuous updating to combat new virus threats. The programmers use an Extreme Programming approach when developing the updates.

c) Explain what is meant by Extreme Programming and why it is a suitable approach in this case

[4 marks]

3. A programmer has been asked by a client to create a complex computer program.

Compare the spiral model and waterfall lifecycle methodologies for this task.

You should include the following in your answer:

- How both methodologies could be used to develop a complex computer program
- The benefits of each methodology for this task
- The drawbacks of each methodology for this task.

[9 marks]

