# 2 Software Development Methodologies

**1. What type of SDLC has defined sequential stages and tasks?**

|  |  |
| --- | --- |
| A | Iterative |
| B | Linear |
| C | Agile |
| D | Evolutionary |

2. **Which is NOT a reason for using a linear type of SDLC?**

|  |  |
| --- | --- |
| A | Need to closely control scope and cost |
| B | Comprehensive documentation required |
| C | Requirements well understood and stable |
| D | High business and technical risk |

**3. A strength of an SDLC with a linear approach is?**

|  |  |
| --- | --- |
| A | If stop early - No value |
| B | Dealing with changing requirements |
| C | Long timescale for complex projects |
| D | Distinct stages with clear purpose |

**4. A specific advantage of the V-Model over a Waterfall approach is?**

|  |  |
| --- | --- |
| A | Good documentation |
| B | Quality built in |
| C | Additional and earlier focus on testing |
| D | Working system delivered earlier |

**5. An evolutionary approach is NOT suitable when?**

|  |  |
| --- | --- |
| A | Requirements not well understood |
| B | Early delivery more important than completeness |
| C | High regulatory and governance control |
| D | High business / technical risk |

**6. A weakness of an SDLC with an evolutionary approach is?**

|  |  |
| --- | --- |
| A | Minimise risk |
| B | Danger of scope creep |
| C | Increased collaboration with business / customer |
| D | Early delivery of value |

**7. Which evolutionary approach breaks down a project into a series of mini-waterfalls?**

|  |  |
| --- | --- |
| A | Agile |
| B | Iterative |
| C | V-Model |
| D | Incremental |

**8. The Agile Manifesto values?**

|  |  |
| --- | --- |
| A | Following a plan over responding to change |
| B | Individuals and interactions over processes and tool |
| C | Comprehensive documentation over working software |
| D | Contract negotiation over customer collaboration |

**9. In addition to the four values how many principles is Agile based on?**

|  |  |
| --- | --- |
| A | 14 |
| B | 10 |
| C | 12 |
| D | 8 |

**10. Which feature of an Agile project is TRUE?**

|  |  |
| --- | --- |
| A | Risk is identified and resolved earlier |
| B | Manpower has a more specialist / silo approach |
| C | Users only involved at requirements and testing stages |
| D | Value only delivered at end of the project |