

Software Development Lifecycle – Mark Scheme

1. Analysis; Design; Implementation; Testing

1 mark if 1 stage correct (and the candidate has written this stage only once); 2 marks if 2 stages correct (and the candidate has written both of these stages only once); 3 marks if all 4 stages correct.

2. Spiral/iterative/agile/SCRUM/incremental/cyclic

3.

No valid response – 0 marks
Lower mark range There are a few simple or vague statements relating to the ideas below. Comparison between models is not given or is false. 1-2 Marks.
Mid mark range There is evidence of some evaluation shown through the use of mostly correct development models with an analysis of their advantages and disadvantages. The statements are supported by some relevant reasoning. The examples cover a few of the ideas below. 3-5 Marks.
High mark range There is evidence of a clear evaluation shown through the use of correct development models that clearly analyses the advantages and disadvantages of both in a reasoned way. 6-8 Marks.
Possible software development models include: Waterfall Model – Each phase clearly separated, inflexible, difficult to go back a step if needed. Spiral Model – More client consultation, ability to return and fix problems. Agile Development – Regular testing, faster development, difficult to develop large software using this method