2004 Paper 2 Question 8

Software Engineering II

Explain what impact each of the following can have on reliability, development costs, programmer productivity and software efficiency:

(a)	top-down refinement;	[4 marks]
(b)	the Z specification language;	[4 marks]
(c)	loop invariants;	[4 marks]
(d)	structural induction;	[4 marks]
(e)	the choice of programming language for use in a project.	[4 marks]

You may wish to explain what the alternatives or opposites to the concept discussed are, or give brief examples.