## 1995 Paper 7 Question 1

## Specification and Verification I

'A formally verified program is a correct program which will always work as required'.

Discuss the truth or otherwise of this statement with respect to

(a)	capturing the specification	[4  marks]
(b)	the verification process	[6  marks]
(c)	using the program	[8 marks]

In what circumstances might it be impossible formally to verify a program using a Hoare logic? [2 marks]