

1996 Paper 7 Question 1

Specification and Verification I

Write a paragraph on *each* of the following:

- (a) the relationship between Floyd–Hoare logic and verification conditions [5 marks]
- (b) partial correctness *versus* total correctness [5 marks]
- (c) reasoning about arrays [5 marks]
- (d) soundness and completeness of Floyd–Hoare logic [5 marks]