

## 2003 Paper 8 Question 8

### Artificial Intelligence II

- (a) Describe the *STRIPS* language for representing states, goals, and operators within a planning system. [5 marks]
- (b) Give a definition of a *plan*, a *consistent plan*, and a *complete plan*. [5 marks]
- (c) Describe the *initial plan* used as a starting point by the partial-order planning algorithm. [5 marks]
- (d) Outline the way in which the partial-order planning algorithm constructs a plan beginning with the initial plan. Include in your answer a description of a *threat* along with an explanation of how the algorithm can attempt to remove threats by promotion or demotion. [5 marks]