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]