

1999 Paper 8 Question 8

Artificial Intelligence

The following stories are adapted from P. Winston's textbook *Artificial Intelligence* (2nd edition, 1984):

Thomas and Albert

Thomas and Albert respected each other's technical judgement and decided to form a software company together. Unfortunately, Thomas learned that Albert was notoriously absentminded, whereupon he insisted that Albert have nothing to do with the proposed company's finances. This angered Albert so much that he backed out of their agreement, hoping Thomas would be disappointed.

John and Mary

John and Mary loved each other and decided to be married. A month before the wedding, John discovered that Mary's father was secretly smuggling stolen art through Venice. After struggling with his conscience for days, John reported Mary's father to the police. Mary understood John's decision, but she despised him for it nonetheless, and she broke off their engagement knowing he would suffer.

For each story, devise a semantic network to represent the characters and events in the story. [10 marks]

Show how a correspondence may be made between these semantic networks to represent the abstract similarity between these stories. [10 marks]