2004 Paper 7 Question 16

Additional Topics

Guy Fawkes and TESLA are streaming authentication protocols based on hash chains.

- (a) Describe the problem that Guy Fawkes was designed to solve. [2 marks]
- (b) Briefly describe how Guy Fawkes works. Draw a diagram of a Guy Fawkes packet (or several) and explain the function and purpose of all the parts.

 [8 marks]
- (c) List and explain the practical shortcomings of Guy Fawkes. [4 marks]
- (d) Draw a diagram of a chain of TESLA packets. For each of the Guy Fawkes shortcomings you found in part (c), explain how TESLA fixes it, if it does.

 [6 marks]