## FACULDADE DE COMPUTAÇÃO – FACOM GBC056 – Arquitetura de Redes de Computadores

## "Design and Validation of Computer Protocols" - Gerard Holzmann

## Problems extracted of the Text Book Chapter 02 – Structure of Protocols

- **01 -** Identify the five protocol elements from Section 2.2 (The Five Elements of a Protocol) for the torch telegraph of Polybius, discussed in Chapter 1 Introduction. List at least three cases of incompleteness in the protocol.
- **02 -** Give an informal description of the procedure rules of a protocol that manages the data transfer from a file server to a printer (Section 2.1 Introduction). Make sure that the protocol can recover when the printer runs out of paper or is switched off line.
- **05 -** Explain why a byte count is most conveniently placed in a message header (Section 2.5 Vocabulary and Format).
- **06** Explain the difference between bit stuffing and character stuffing.