- b) What is data transparency and how is it achieved in synchronous and asynchronous systems? What costs are involved?
- c) What is scrambling why is it used and how is it done?
- d) What is balanced electrical transmission and why is it used?
- 7. a) What are NAKs and what purpose do they serve?
 - b) What is piggybacking and why is it used? What costs are involved in using it?
 - c) What is the difference between rollcall and hub polling when are they used?
 - d) What are the differences between strict TDM and statistical TDM what are their costs?
- 8. a) What is ARQ and what type of error control does it use?
 - b) What are the differences between Go-Back-N and Selective Repeat ARQ?
 - c) What contributes to the loss of utilization at the data link layer? What forms do these terms generally take and why?

BONUS: Give a question suitable to the material and supply an answer for it.

SIGN HERE: I have not discussed the contents of this test with anyone who was taking it, nor anyone who took it before I did, nor will I discuss it with anyone who has not taken it until they have turned it in. I have received no help on this test from others. SIGNED & DATED: