End of Exercise 12

II) How many connections are required for 30 nodes to be connected in a full mesh topology? (**Calculation Exercise)**

Number of connections = nodes * (nodes-1) /2

$$= 30 \times 29 / 2$$

$$= 435$$

III) Each individual link channel is characterized by a number of different properties. Some of them are a) type of medium, b) signaling method, c) directionality of signals, d) nature of the interfaces with the end nodes and with other links. What are the other properties? **(**Please type your answer, this is not a calculation exercise)

link bandwidth
restrictions on the length of the channel
the time delay between the time the channel receives data from its incoming node and the time it   releases the data to its outgoing node
the number of connections sharing the channel
the noise characteristics of the channel
guided or unguided
electrical or optical properties of the channel