End of Chapter 12 Exercises

Q1) How many connections are required for 30 nodes to be connected in a full mesh topology?

Ans) The formula is

Number of connections = (Nodes)\*(Nodes-1)/2 = 30\*29/2 = 435

Q2) Each individual link channel is characterized by a number of different properties. Some of them are a) type of medium, b) signalling method, c) directionality of signals, d) nature of the interfaces with the end nodes, and with other links. What are the other properties?

Ans) The other properties are:-

a) Link bandwidth

b) Restrictions on the length of the channel

c) 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

d) The number of connections sharing the channel

e) The noise characteristics of the channel