## Solution Manual for Switching and Statistical Multiplexing in Telecommunications Text Book: Telecommunication Switching Systems and Networks — Thiagarajan Viswanathan

#### I. Introduction

Q1. A fully connected network supports full duplex communications using unidirectional links. Show that the total number of links in such a network with n nodes is given by 2 x °C.

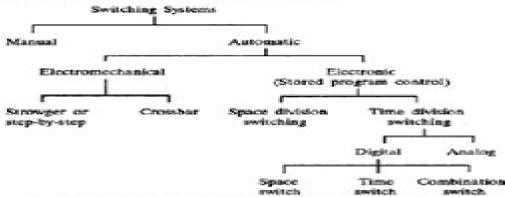
Ans: Number of links in a point to point link with n nodes is given by:

For a full duplex unidirectional links, total number of links required is:

5 - <u>r(n-1)</u>
-c, <u>et .</u> ele 30e-30 . <u>ne 1</u>

Therefore, total number of links = 2 x °C<sub>2</sub>

Q2. How are switching systems classified? In what way is stored program control superior to hard-wired control? Ans: Switching systems are classified as follows:



- New facilities can be added to SPC program by changing control parameters but it is virtually impossible to modify the hard-wired subsystems to provide new functionalities.
- 2. Hard-wired subsystems have limited capacity, but SPC has higher capacity.
- 3. In SPC control functions are performed by the computer or processor rather than hardware.

Q3. Estimate the bandwidth requirements of a single satellite that is to support 20 million telephone conversations simultaneously.

Ans: Each telephone conversation takes 64 kbps bandwidth.

For 20 million telephone conversations the bandwidth required is given by:

Bandwidth = 20 X 10" X 64 lbps = 20 X 10" X 64 X 10"

- 1280 X 10" - 1.280 Gbps

# **Solution Manual For Telecommunication Switching Systems**

Juan Moreno García-Loygorri

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