SDH Network Topologies

Point-to-Point Network:
There is no need for protection.

Chain Network;

Ring Topology:
It permits network protection and adjustability.
Synchronous Network Elements:
1) Regenerator;
Regenerators used to Amplify the signal and Produce the new optical signal of the same format.

2) Terminal Multiplexer;
Terminal Multiplexer is used to combines the SDH and PDH input signals, It gives a output of STM-N Signal. While connecting 2 sites in a high rate connection, it is mainly used. At the ends of the chain normally Terminal Multiplexer is connected.

3) ADM;
The Add and Drop Multiplexer (ADM),which allows STM-N signal as the input, It is capable to drop or add any low rate tributary.
The Add and Drop Multiplexer (ADM) is used in all topologies.
4) DXC (digital cross connect);
It is used for interconnecting.