LAYER 7
Application
- Provides protocols for end-user applications
- Provides standardized services to applications

LAYER 6
Presentation
- Translates data format of sender to the data format of the receiver
- Provides code conversion, data compression and encryption services

LAYER 5
Session
- Establishes and terminates communications sessions between host processes
- Provides synchronization and translation between name and address databases

LAYER 4
Transport
- Guarantees error-free hosts-to-hosts connections
- Fragments and reassembles messages
- Works in units of messages

LAYER 3
Network
- Addresses, switches, and routes packets between hosts
- Fragments and reassembles packets
- Works in units of packets

LAYER 2
Data Link
- Frames and Addresses Packets,
- Provides error-free node-to-node connections and flow control
- Provides mapping between Network Layer addresses and Data Link Layer addresses
- Works in units of frames

LAYER 1
Physical
- Handles the physical, electrical, and procedural specifications required to transmit data across the physical medium or cables.
- Defines connectors, pinouts, and electrical voltage and current levels.
- Works in units of bits.

TCP/IP SUITE
SUN NFS SUITE
IBM PROTOCOL SUITE
NOVELL NETWARE PROTOCOL SUITE
X.25 PROTOCOL SUITE
ISO PROTOCOL SUITE
DEC/DECnet PHASE IV PROTOCOL SUITE
XNS PROTOCOL SUITE
APPLETALK PROTOCOL SUITE
BANYAN VINES PROTOCOL SUITE
ISO 9577
ETHERTYPE
LLC 802.2
V,E,T Series
LAN
SMDS
ATM
PPP
ISDN
CDPD

BRI = Basic Rate Interface
PRI = Primary Rate Interface

Protocol Header/Physical
Connection to a Protocol
Connection to Encapsulation Mechanism