

SNS COLLEGE OF TECHNOLOGY



Coimbatore-37. An Autonomous Institution

COURSE CODE & NAME: 19CSB032 & COMPUTER NETWORKS

Topic: Protocols and Standards

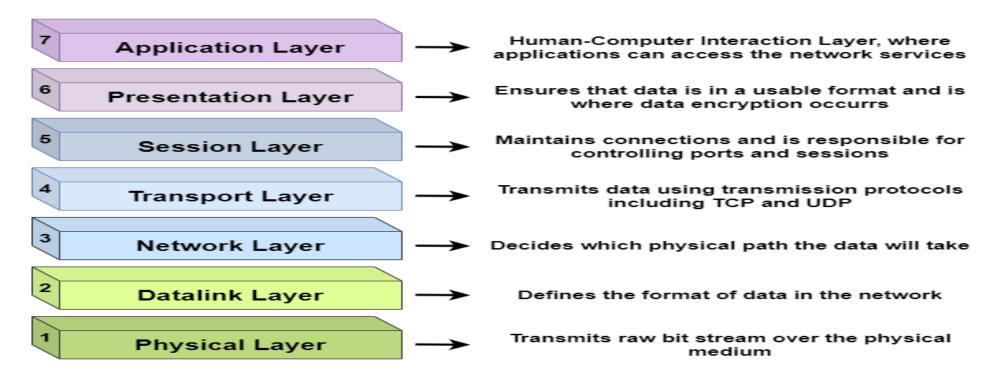
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19CSB032 & COMPUTER NETWORKS/ CSE/SNSCT



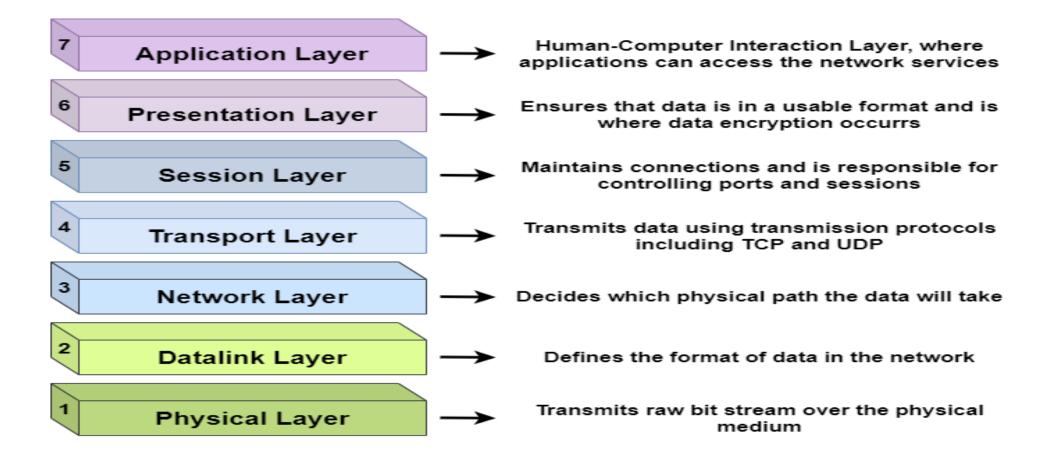


Open Systems Interconnection – 7 Layers



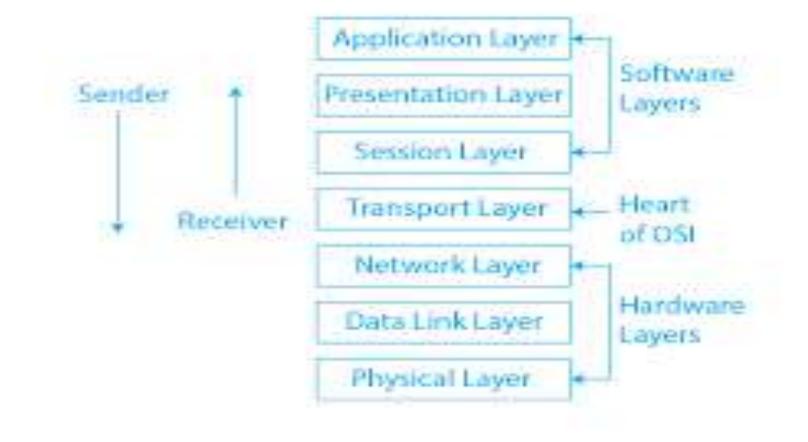
















OSI model				
Layer	Name	Example protocols		
7	Application Layer	HTTP, FTP, DNS, SNMP, Telnet		
6	Presentation Layer	SSL, TLS		
5	Session Layer	NetBIOS, PPTP		
4	Transport Layer	TCP, UDP		
3	Network Layer	IP, ARP, ICMP, IPSec		
2	Data Link Layer	PPP, ATM, Ethernet		
1	Physical Layer	Ethernet, USB, Bluetooth, IEEE802.13		





7 Layers of the OSI Model			
Application	End User layer HTTP, FTP, IRC, SSH, DNS		
Presentation	Syntax layer SSL, SSH, IMAP, FTP, MPEG, JPEG		
Session	Synch & send to port API's, Sockets, WinSock		
Transport	End-to-end connections TCP, UDP		
Network	Packets IP, ICMP, IPSec, IGMP		
Data Link	Frames Ethernet, PPP, Switch, Bridge		
Physical	Physical structure Coax, Fiber, Wireless, Hubs, Repeaters		





07	Application Layer	Provide user interface where applications can access the network services.
06	Presentation Layer	Ensure that Data is in usable format and perform encryption & decryption.
05	Session Layer	Maintains connection between two host & responsible for controlling ports and sessions.
04	Transport Layer	Transmits data using transmission protocols including TCP & UDP.
03	Network Layer	Moves packets from source to destination to provide internetworking.
02	Data Link Layer	Responsible for the error-free transfer of data frames.
01	Physical Layer	Provides physical medium through which bits are transmitted.





