An Autonomous Institution

Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A+' Grade
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

RTMENT OF INFORMATION TECHNOLOGY

19CSB302 – COMPUTER NETWORKS

III YEAR V SEM

IT 1 – FUNDAMENTALS AND PHYSICAL LAYER

TOPIC 9 –Internet Architecture

Application programs	
Request/reply channel	Message stream channel
Host-to-host connectivity	
Hardware	

defines the interfaces between the layers in the sa

nd with the layers of peer system

blocks of a network architecture

tocol object has two different interfaces

nterface: operations on this protocol
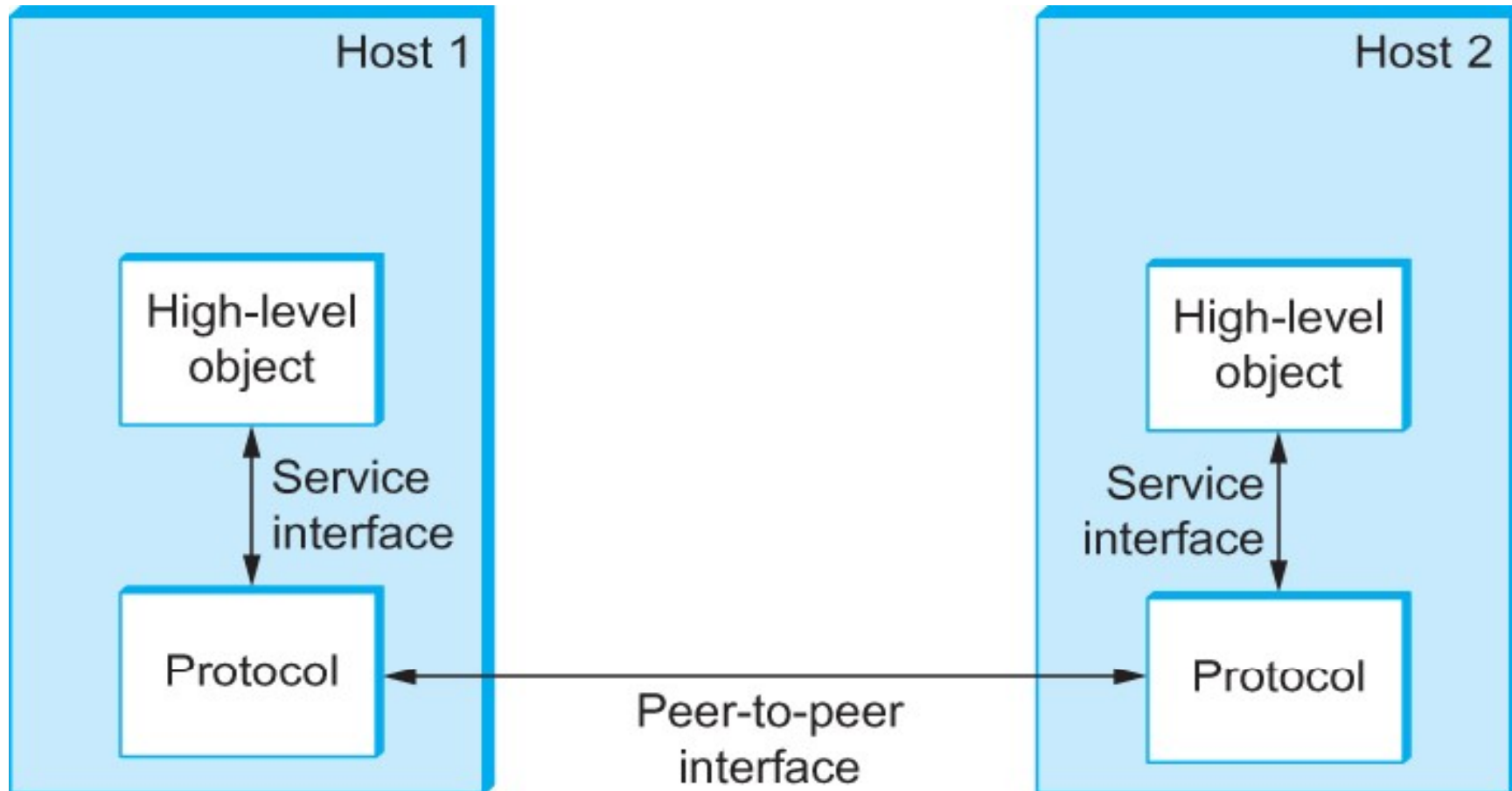
peer interface: messages exchanged with peer

otocol" is overloaded

ation of peer-to-peer interface
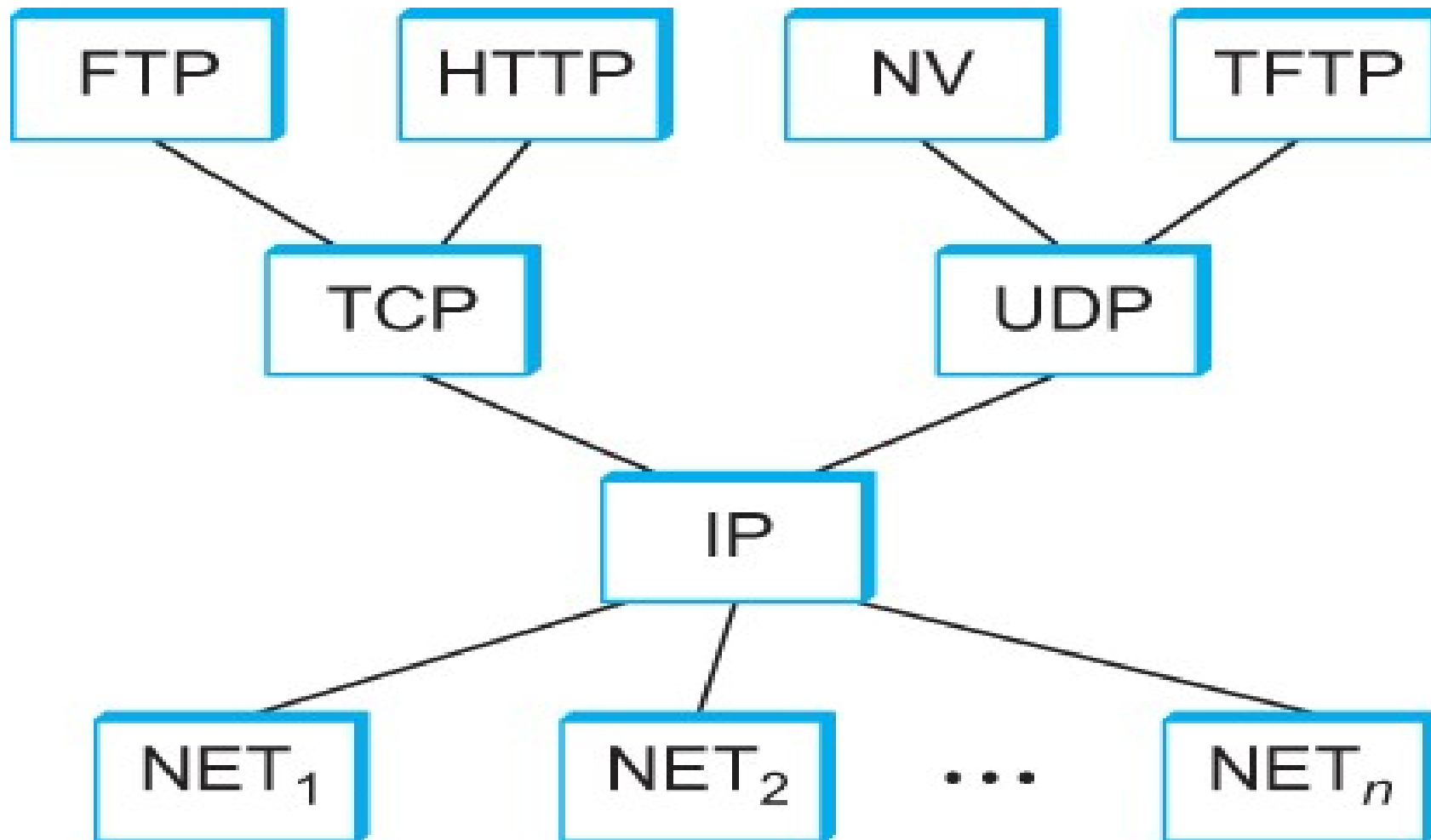
that implements this interface
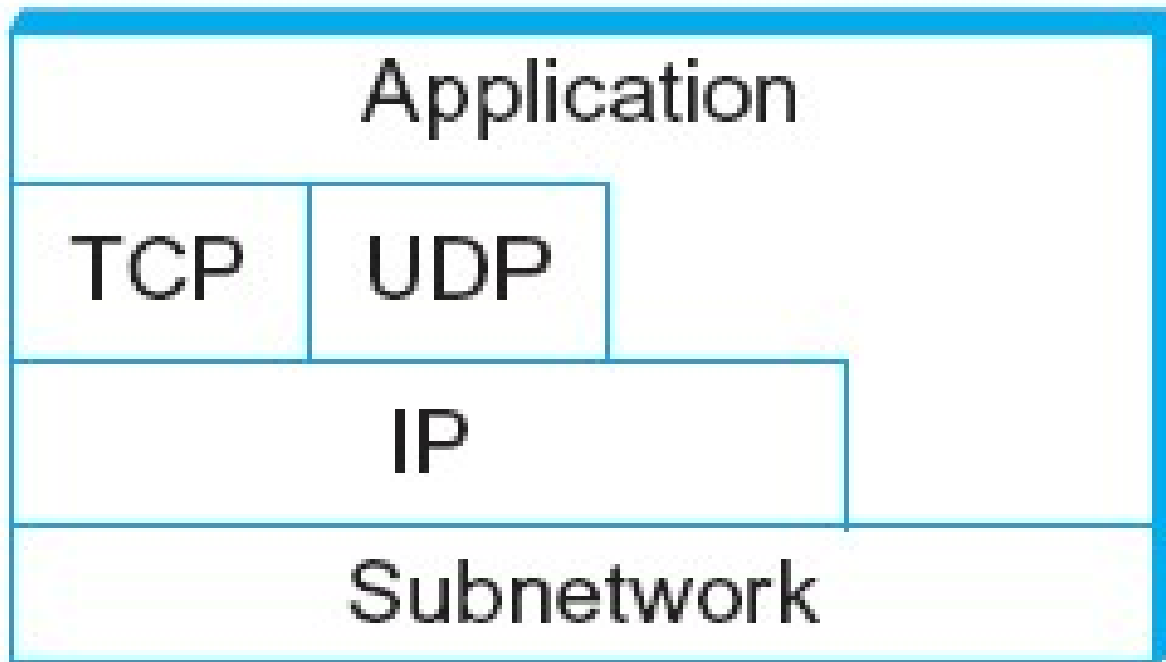
Interfaces

Service and Peer Interfaces

Specification: prose, pseudo-code, state transition diag

erable: when two or more protocols that implement the

tion accurately

ternet Engineering Task Force

Internet Protocol Graph

Application		
TCP	UDP	
IP		
Subnetwork		

ve view of the Internet architecture. The "Network
ere is sometimes referred to as the "sub-network" o

fined by IETF

ree main features

Does not imply strict layering. The application is free to bypass
ransport layers and to directly use IP or other underlying netw

n hour-glass shape – wide at the top, narrow in the middle and
ottom. IP serves as the focal point for the architecture

n order for a new protocol to be officially included in the archit
eeds to be both a protocol specification and at least one (and p
wo) representative implementations of the specification

P model does not have _____ layer but OSI model have th

sion layer

nsport layer

lication layer

work layer

 address is used on the internet for employing the TCP/

sical address and logical address

t address

cific address

f the mentioned

Thank You