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FACULTY OF ENGINEERING & TECHNOLOGY

BCA-302 Computer Networks

Lecture-12

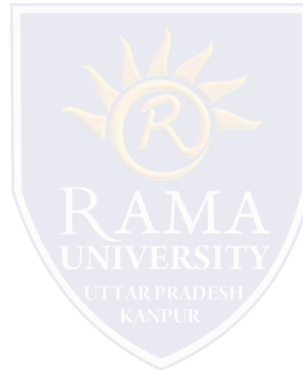
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OUTLINE

- **SERVICE PRIMITIVES**
- **THE RELATIONSHIP OF SERVICE**
- **THE OSI REFERENCE MODEL**
- **THE TCP/IP REFERENCE MODEL**



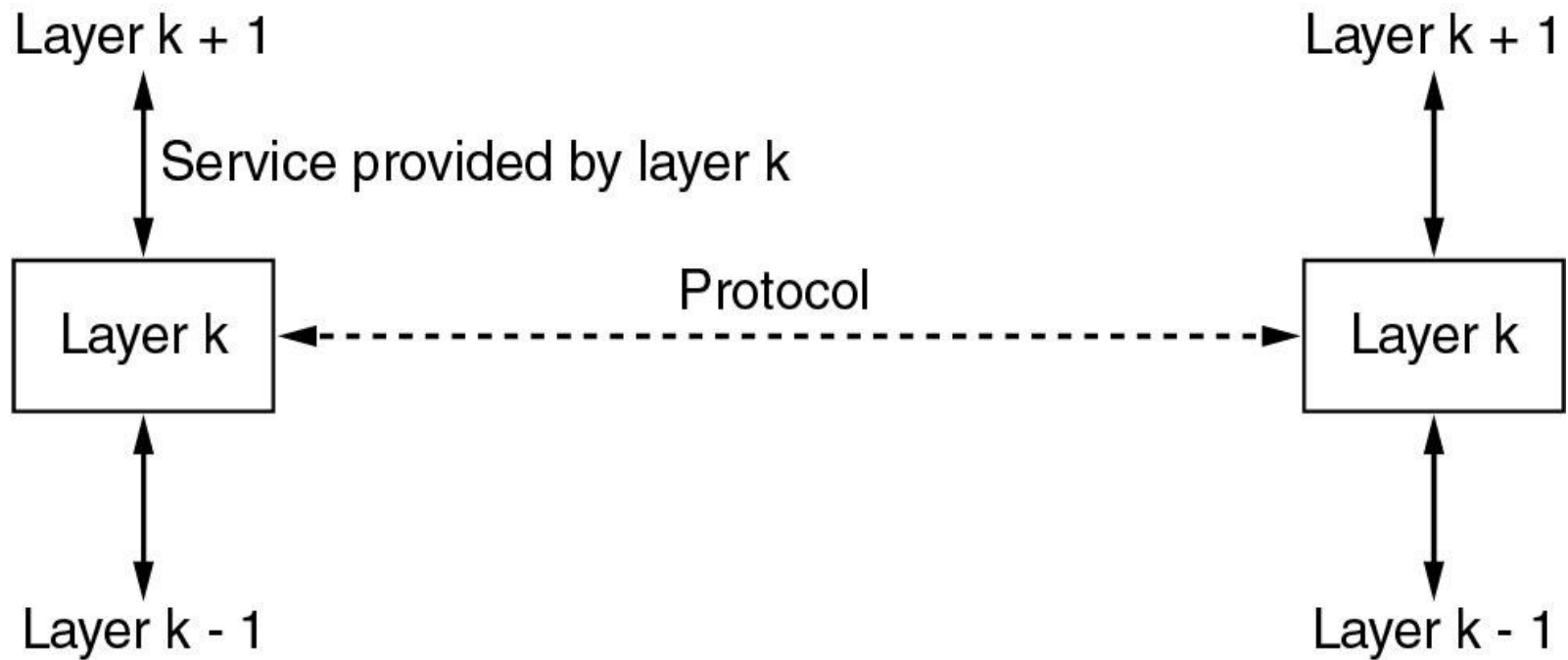
SERVICE PRIMITIVES

A service is formally specified by a set of primitives (basic operations) available to a user or other entity to access the service

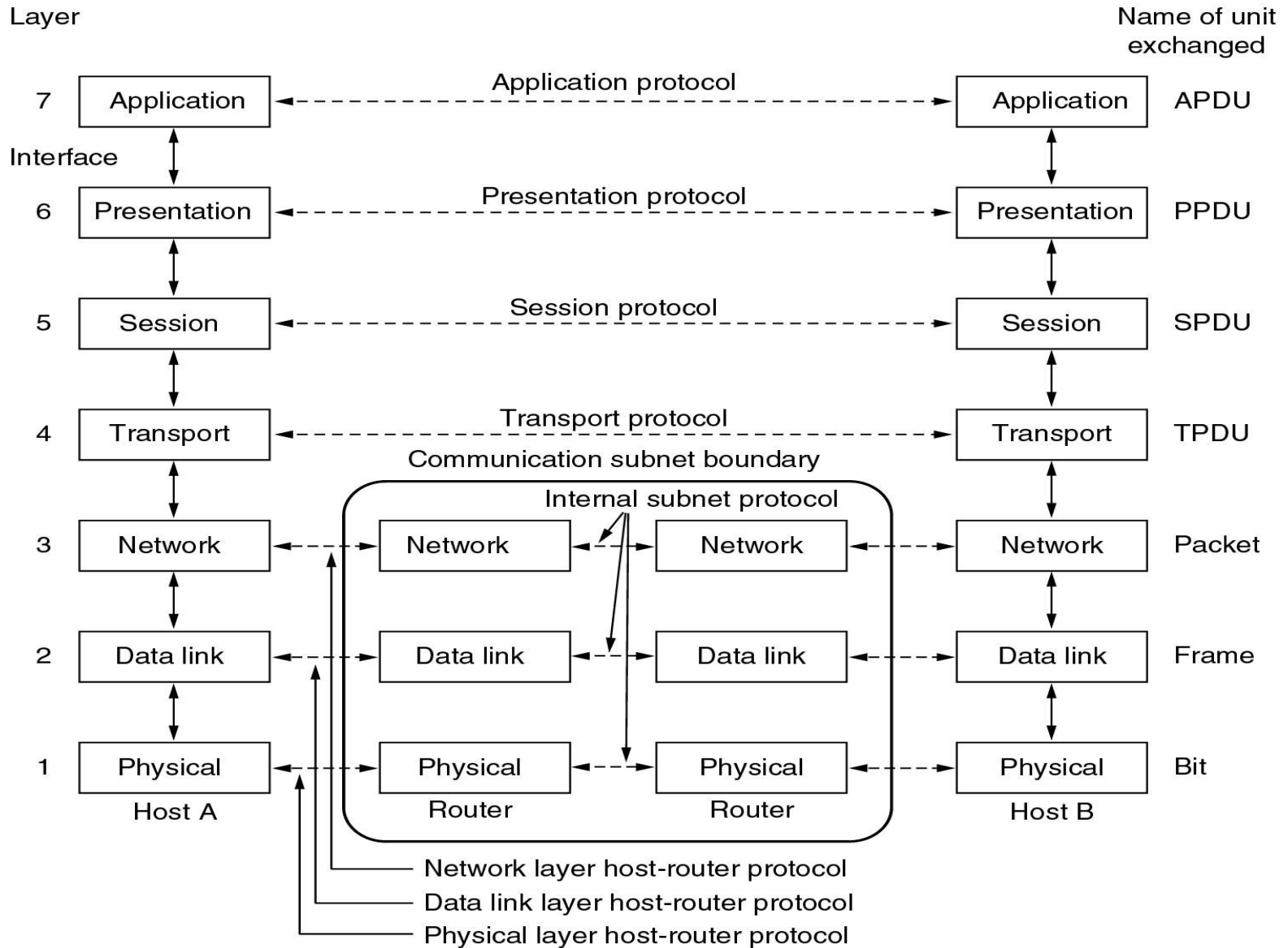
Primitive	Meaning
LISTEN	Block waiting for an incoming connection
CONNECT	Establish a connection with a waiting peer
RECEIVE	Block waiting for an incoming message
SEND	Send a message to the peer
DISCONNECT	Terminate a connection

Example: five service primitives for implementing a simple connection-oriented service

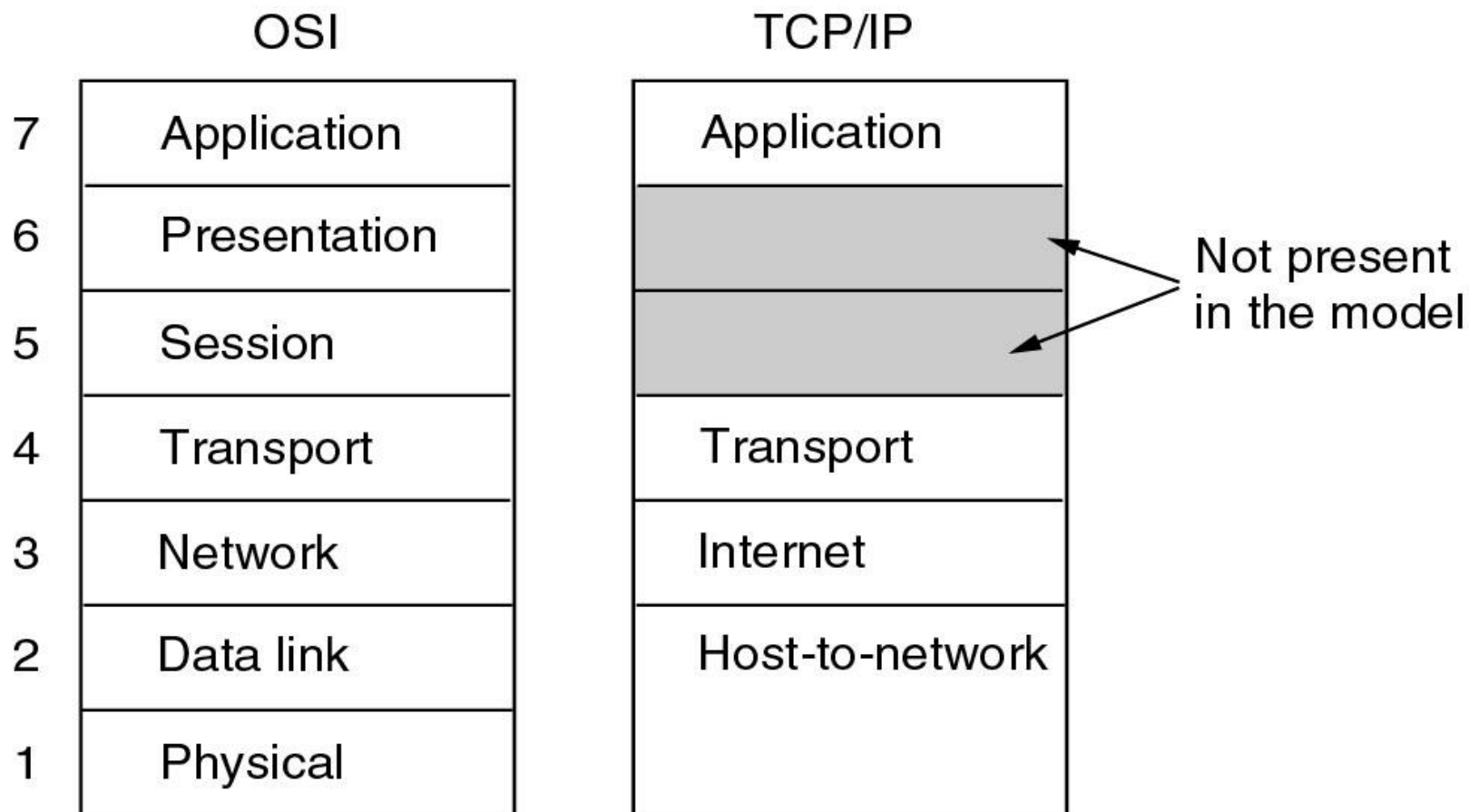
THE RELATIONSHIP OF SERVICE



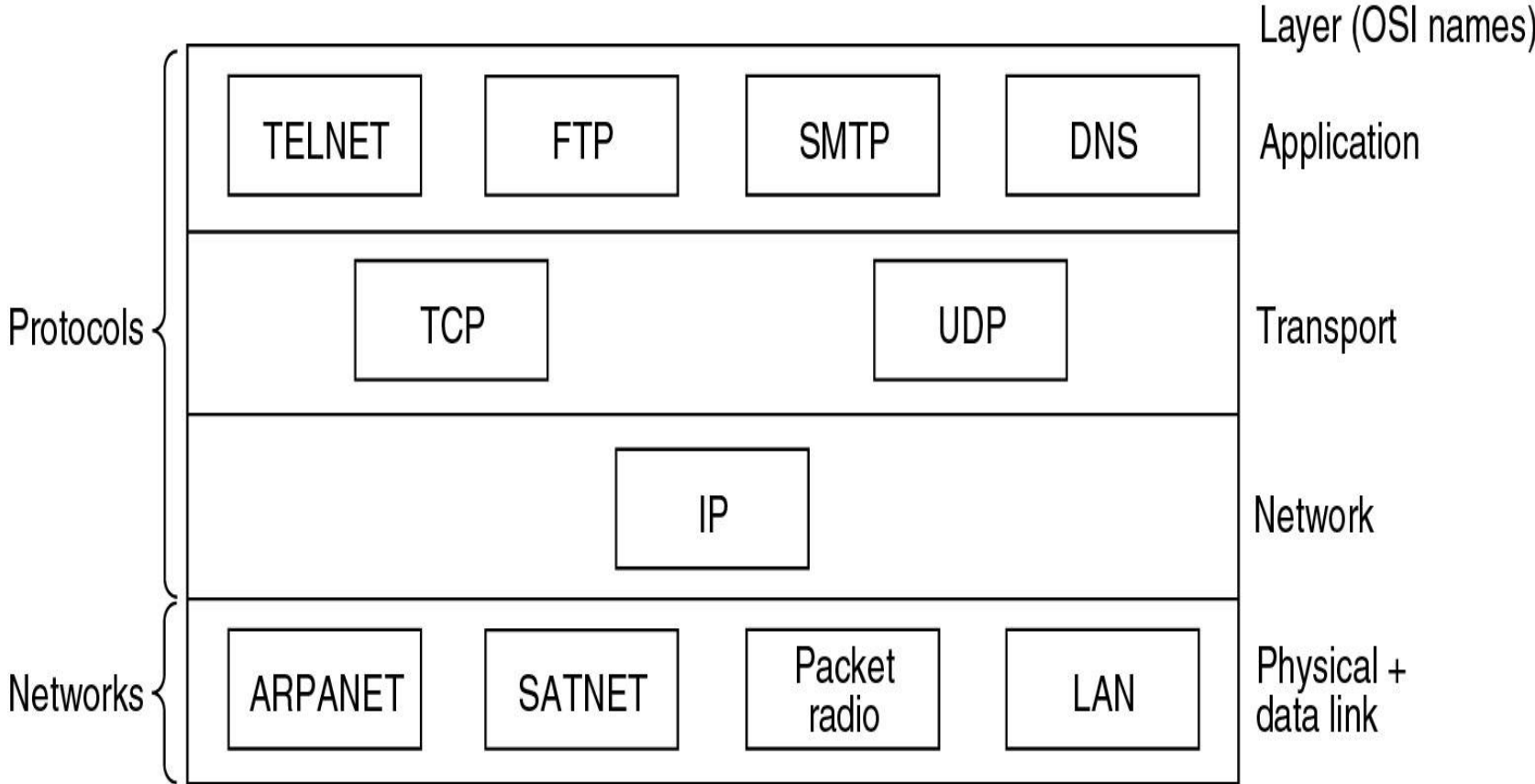
THE OSI REFERENCE MODEL



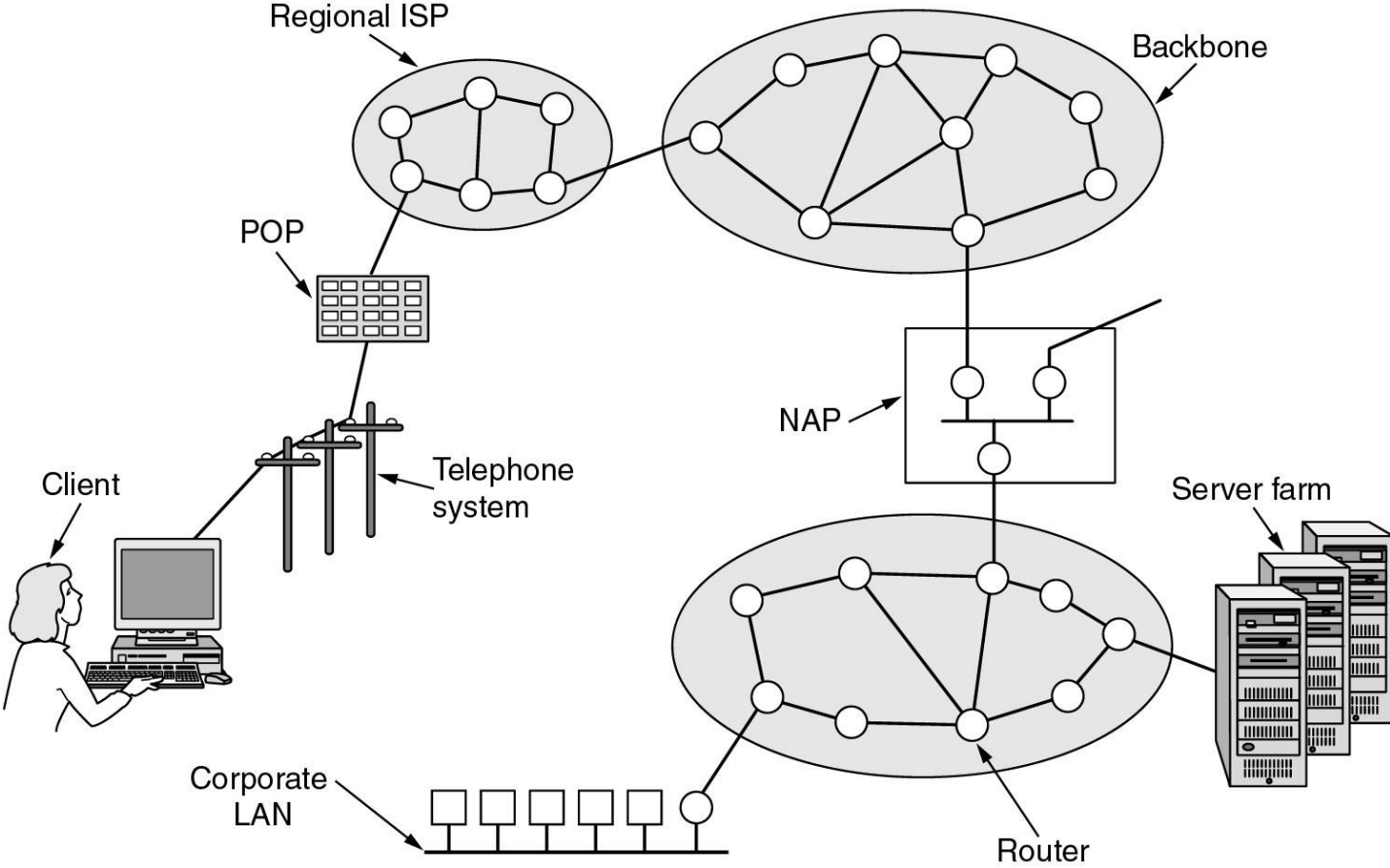
THE TCP/IP REFERENCE MODEL



THE TCP/IP REFERENCE MODEL



THE TCP/IP REFERENCE MODEL(INTERNET)



Multiple Choice Question

MUTIPLE CHOICE QUESTIONS:

Sr no	Question	Option A	Option B	OptionC	OptionD
1	Communication between a computer and a keyboard involves _____ transmission.	Automatic	Half-duplex	Full-duplex	Simplex
2	A _____ is the physical path over which a message travels.	Path	Medium	Protocol	Route
3	Which of this is not a network edge device?	PC	Smartphones	Servers	Switch
4	A _____ set of rules that governs data communication.	Protocols	Standards	RFCs	Servers
5	Three or more devices share a link in _____ connection.	Unipoint	Multipoint	Point to point	Simplex

REFERENCES

- <http://www.engppt.com/2009/12/networking-fourzan-ppt-slides.html>

