



RAMA UNIVERSITY

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FACULTY OF ENGINEERING & TECHNOLOGY

DCS-503 Computer Networks

Lecture-06

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OUTLINE

- **LAYERS IN THE OSI MODEL**
- **FUNCTIONS OF PHYSICAL LAYERS**
- **FUNCTIONS OF DATA LINK LAYERS**
- **FUNCTIONS OF NETWORK LAYERS**

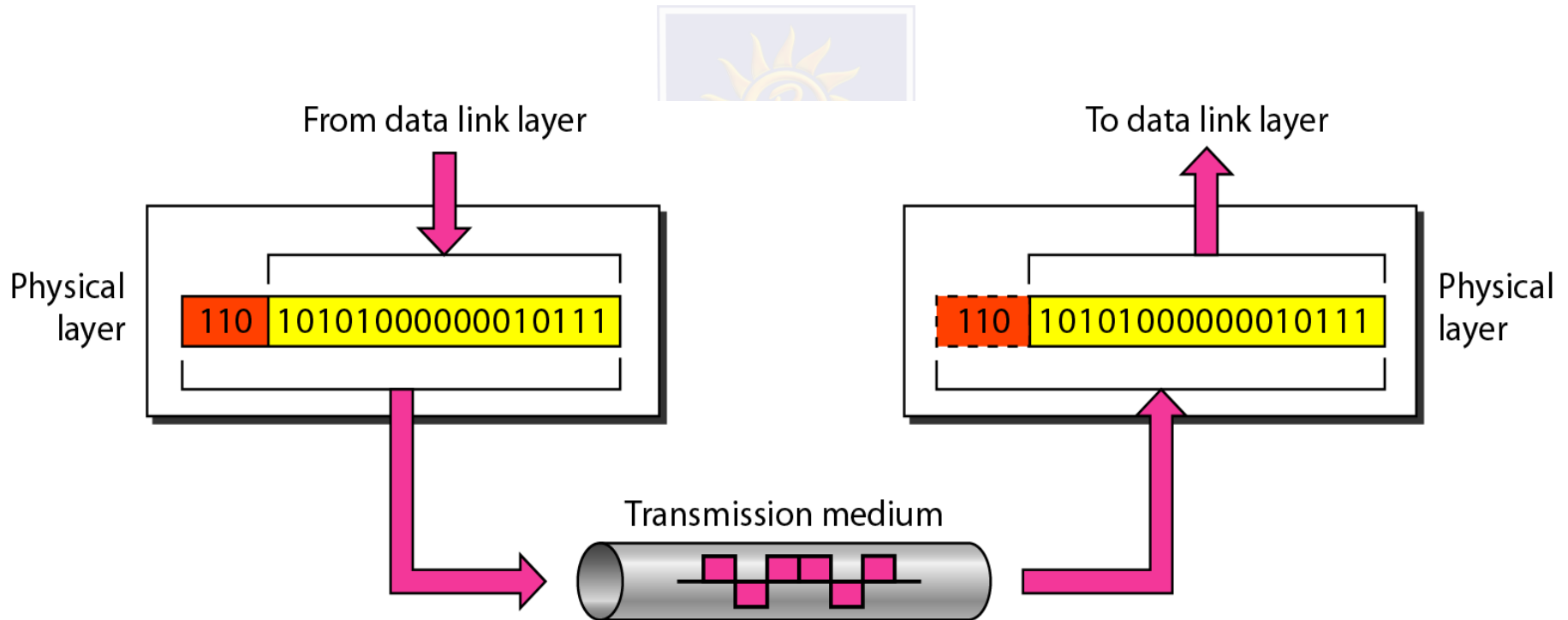


LAYERS IN THE OSI MODEL

the functions of each layer in the OSI model.

PHYSICAL LAYER

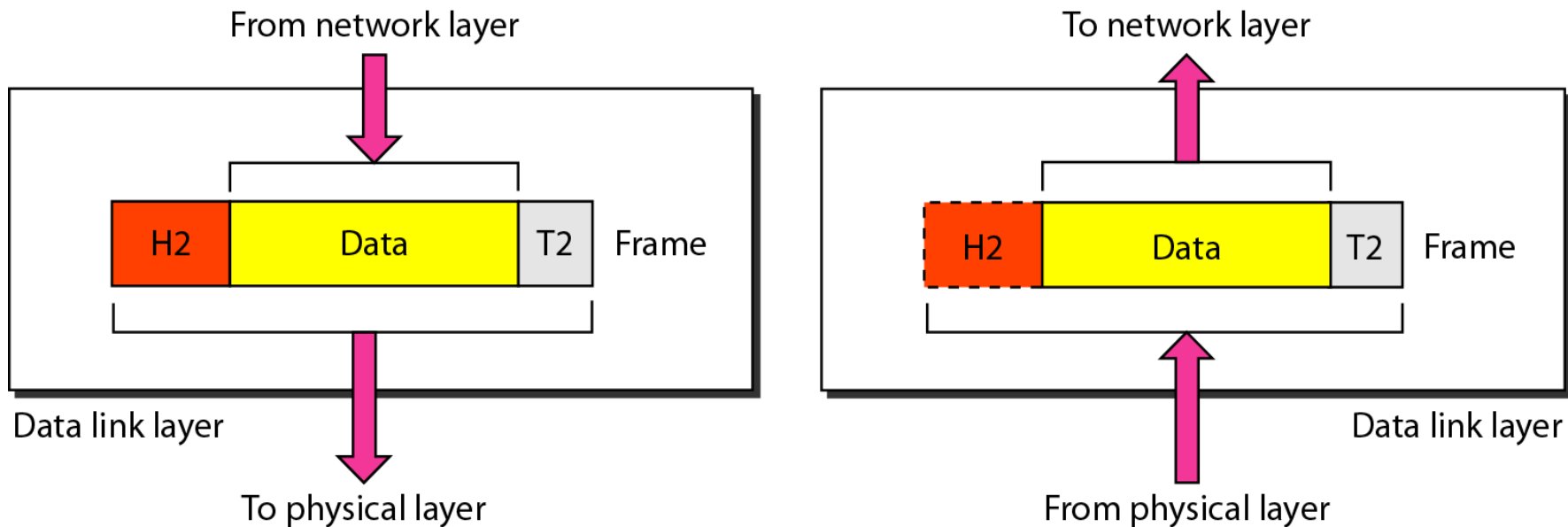
The physical layer is responsible for movements of individual bits from one hop (node) to the next.



LAYERS IN THE OSI MODEL

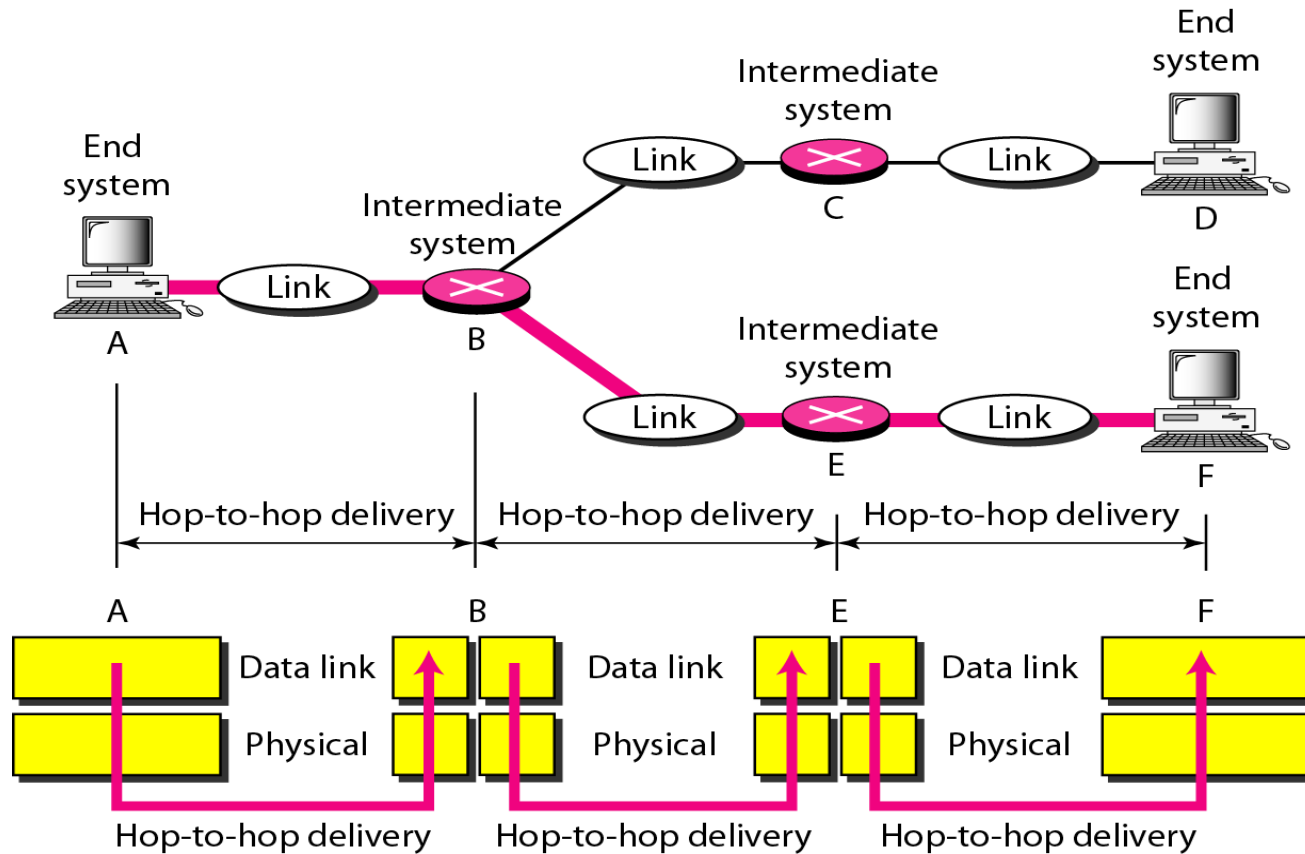
DATA LINK LAYER

The data link layer is responsible for moving frames from one hop (node) to the next.



LAYERS IN THE OSI MODEL

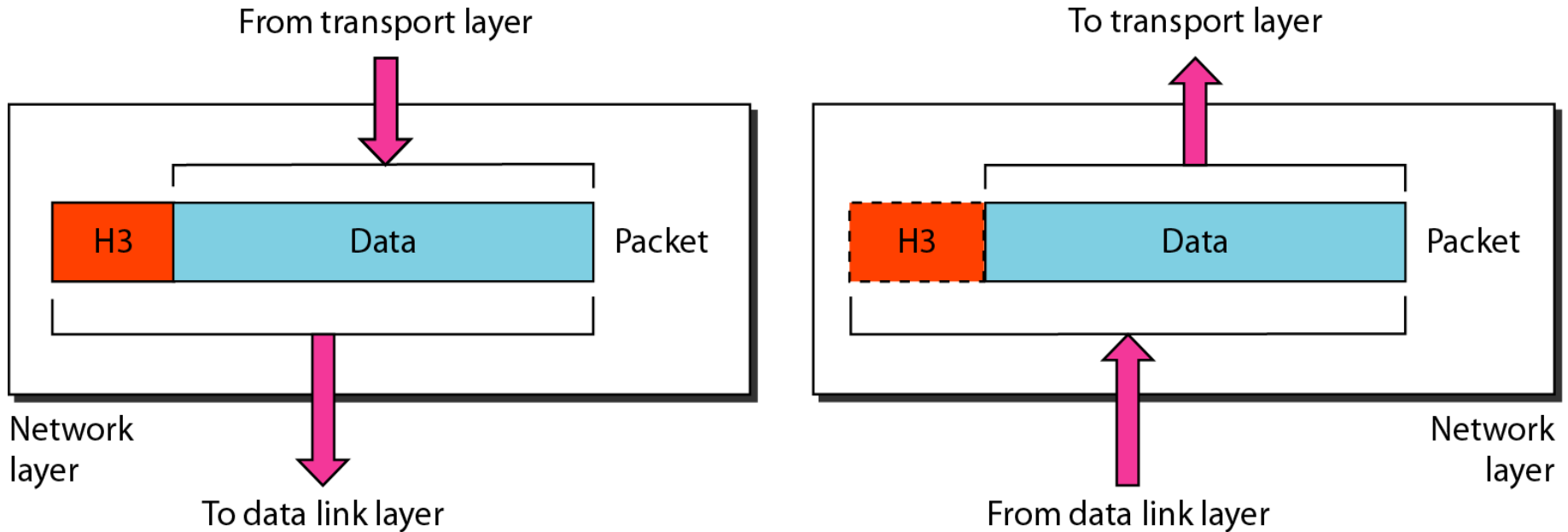
HOP-TO-HOP DELIVERY



LAYERS IN THE OSI MODEL

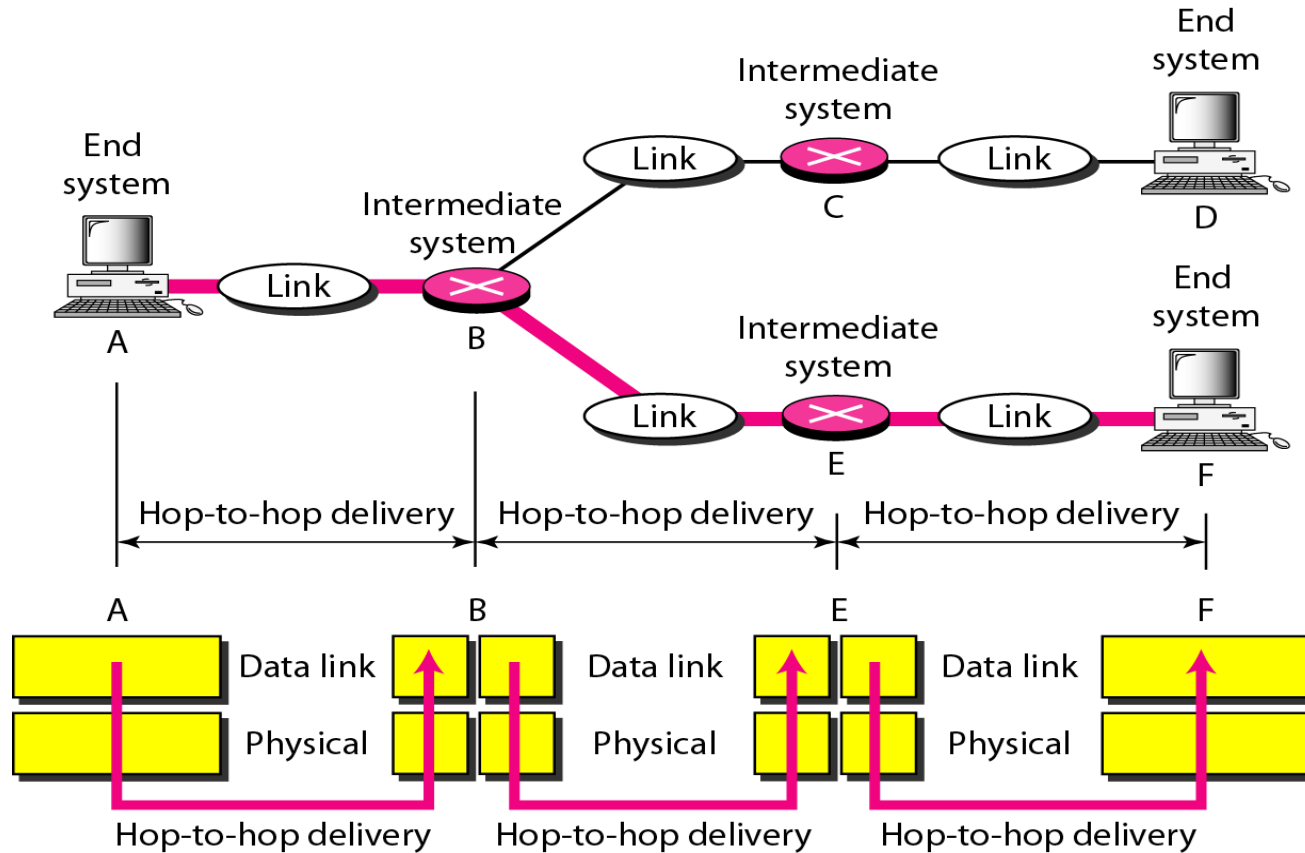
NETWORK LAYER

The network layer is responsible for the delivery of individual packets from the source host to the destination host.



LAYERS IN THE OSI MODEL

SOURCE-TO-DESTINATION DELIVERY



Multiple Choice Question

MUTIPLE CHOICE QUESTIONS:

1. Which layer is responsible for process to process delivery in a general network model?

- a) network layer b) transport layer c) session layer d) data link layer

2. Which layer provides the services to user?

- a) network layer b) transport layer c) application layer d) data link layer

3. Transmission data rate is decided by _____

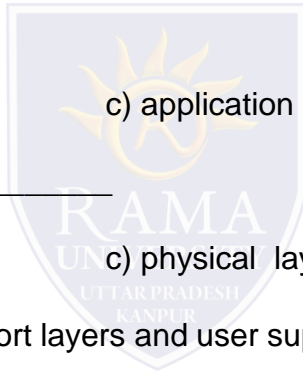
- a) network layer b) transport layer c) physical layer d) data link layer

4. Which layer is used to link the network support layers and user support layers?

- a) network layer b) transport layer c) physical layer d) data link layer

5. The OSI model defines layer 5,6,7 as thelayers

- A)Physical support B)network support C)user support D)none of above



REFERENCES

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

