FACULTY OF ENGINEERING & TECHNOLOGY
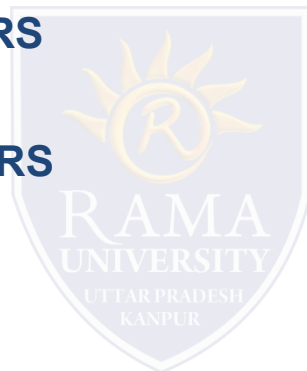
BCA-302Computer Networks

Lecture-06

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OUTLINE

➤ **LAYERS IN THE OSI MODEL**

➤ **FUNCTIONS OF PHYSICAL LAYERS**

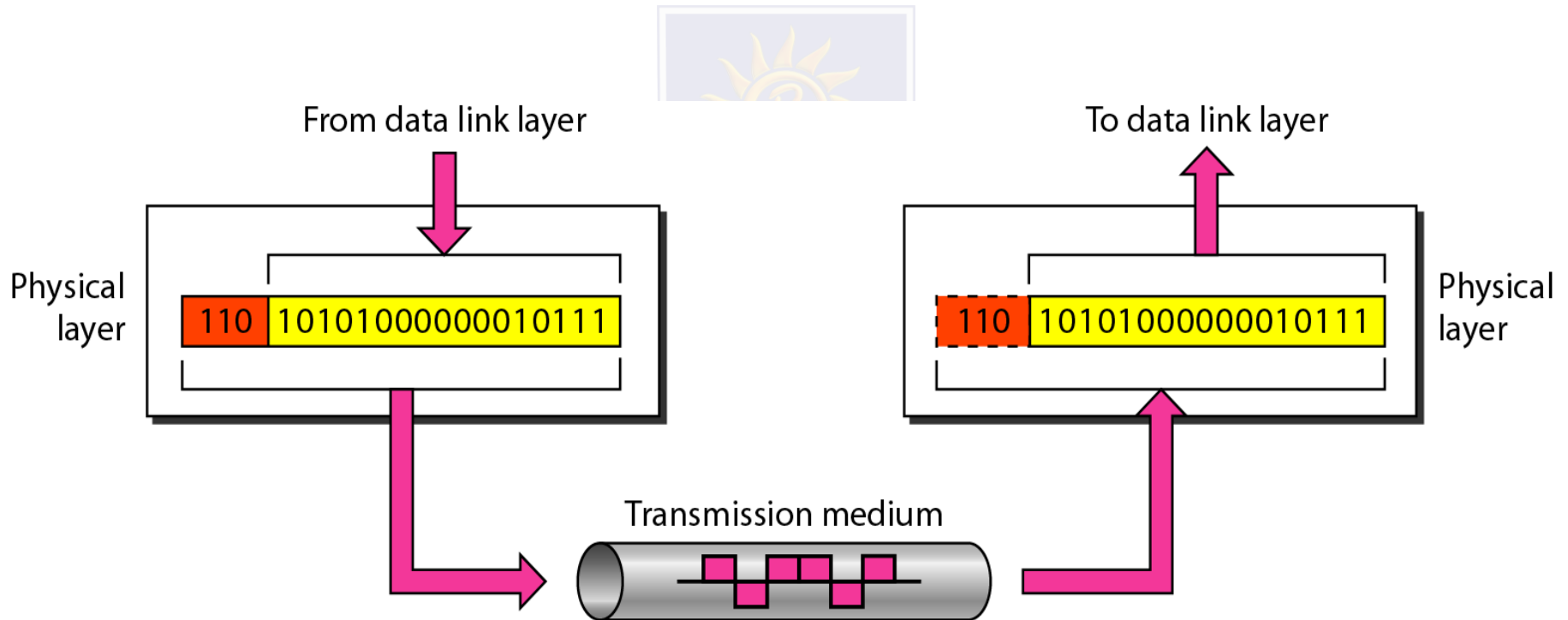➤ **FUNCTIONS OF DATA LINK LAYERS**

➤ **FUNCTIONS OF NETWORK LAYERS**

the functions of each layer in the OSI model.

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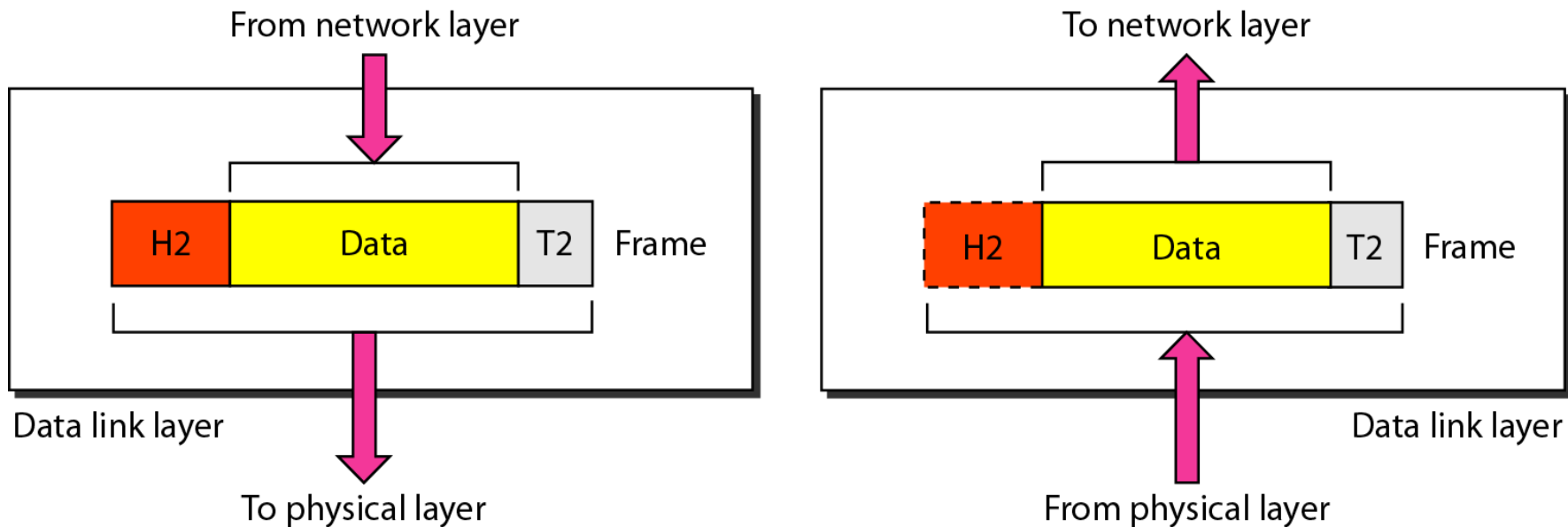
The physical layer is responsible for movements of individual bits from one hop (node) to the next.

From data link layer
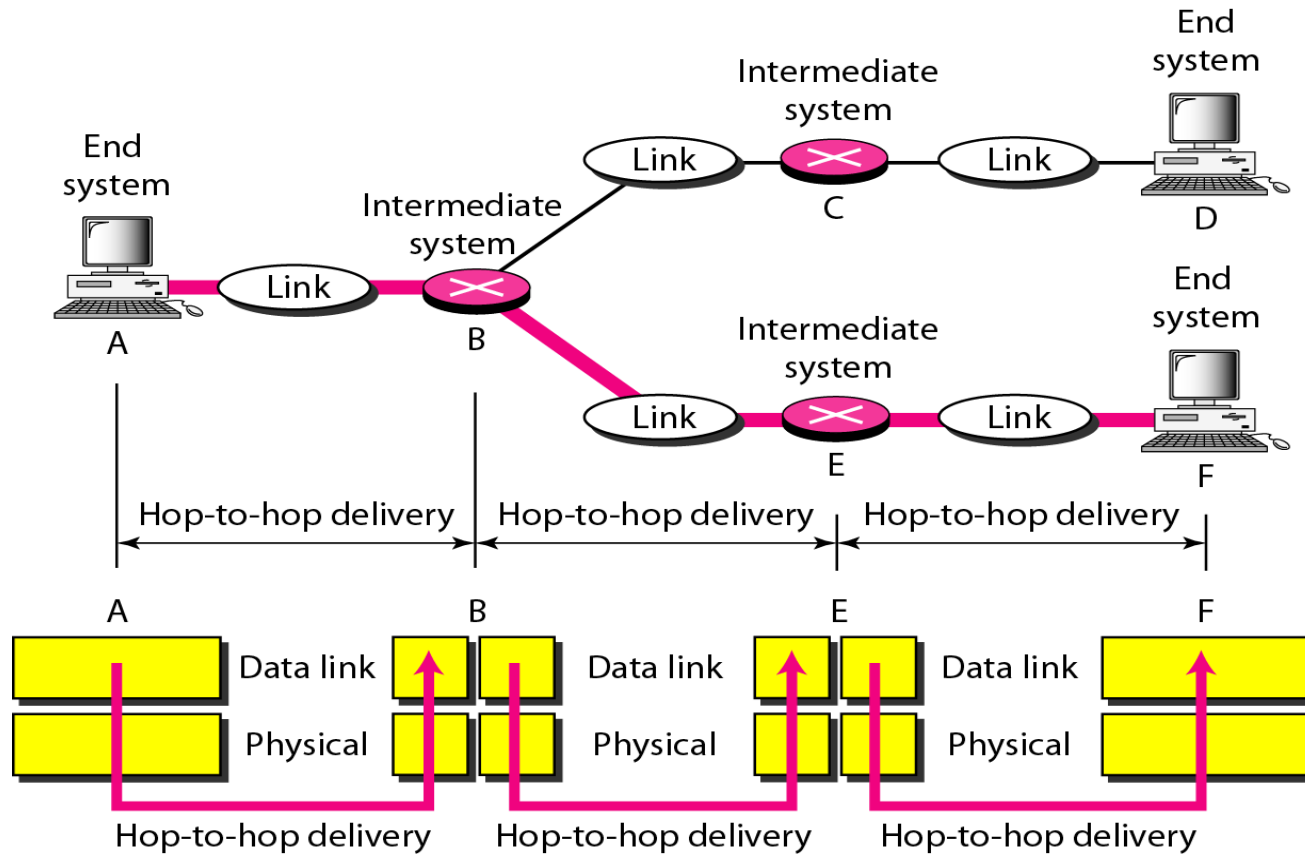
To data link layer

Physical layer

110 | 10101000000010111

110 | 10101000000010111

Physical layer

Transmission medium

DATA LINK LAYER

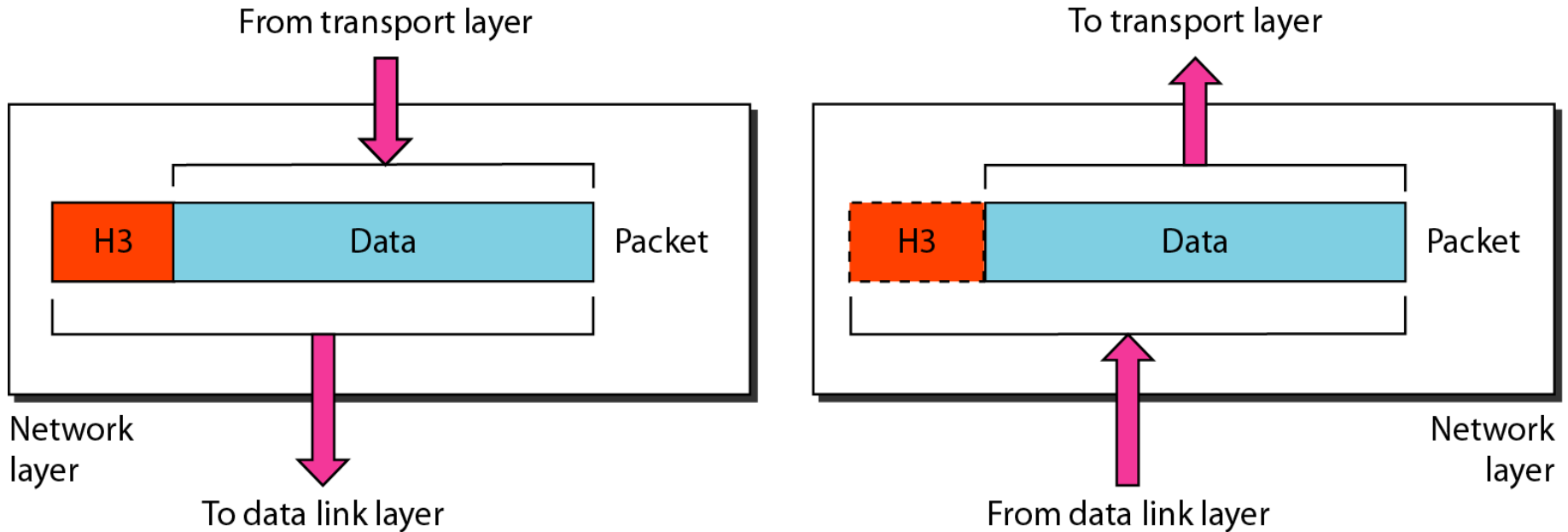The data link layer is responsible for moving frames from one hop (node) to the next.
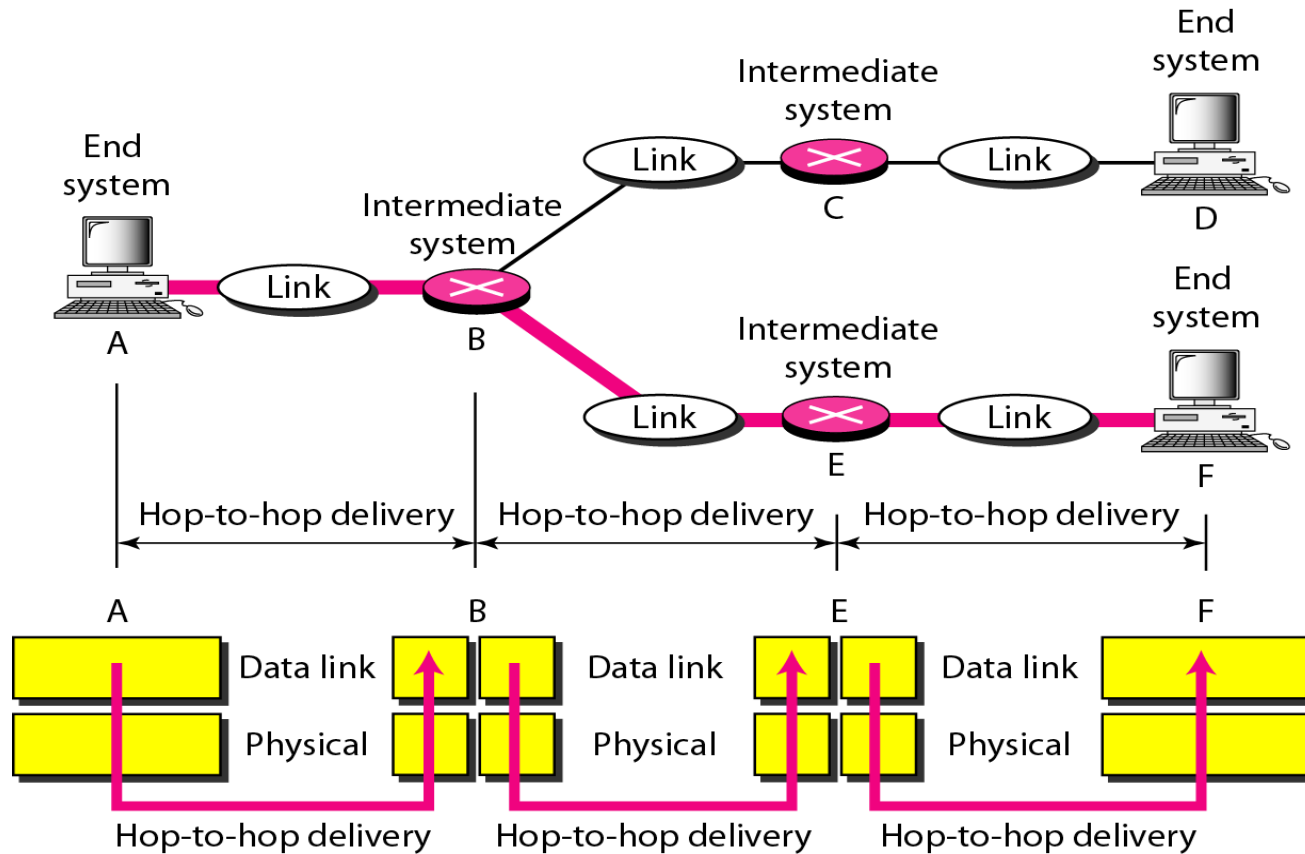
HOP-TO-HOP DELIVERY

NETWORK LAYER

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

SOURCE-TO-DESTINATION DELIVERY

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

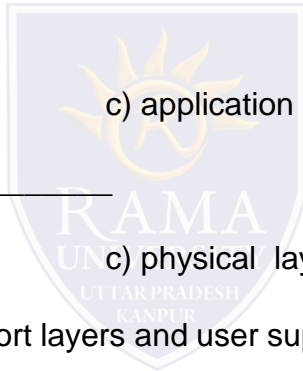3. Transmission data rate is decided by _____

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 5,6,7as the ....layers

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

- http://www.engppt.com/2009/12/networking-fourozan-ppt-slides.html