FACULTY OF ENGINEERING & TECHNOLOGY

DCS-503 Computer Networks

Lecture-07

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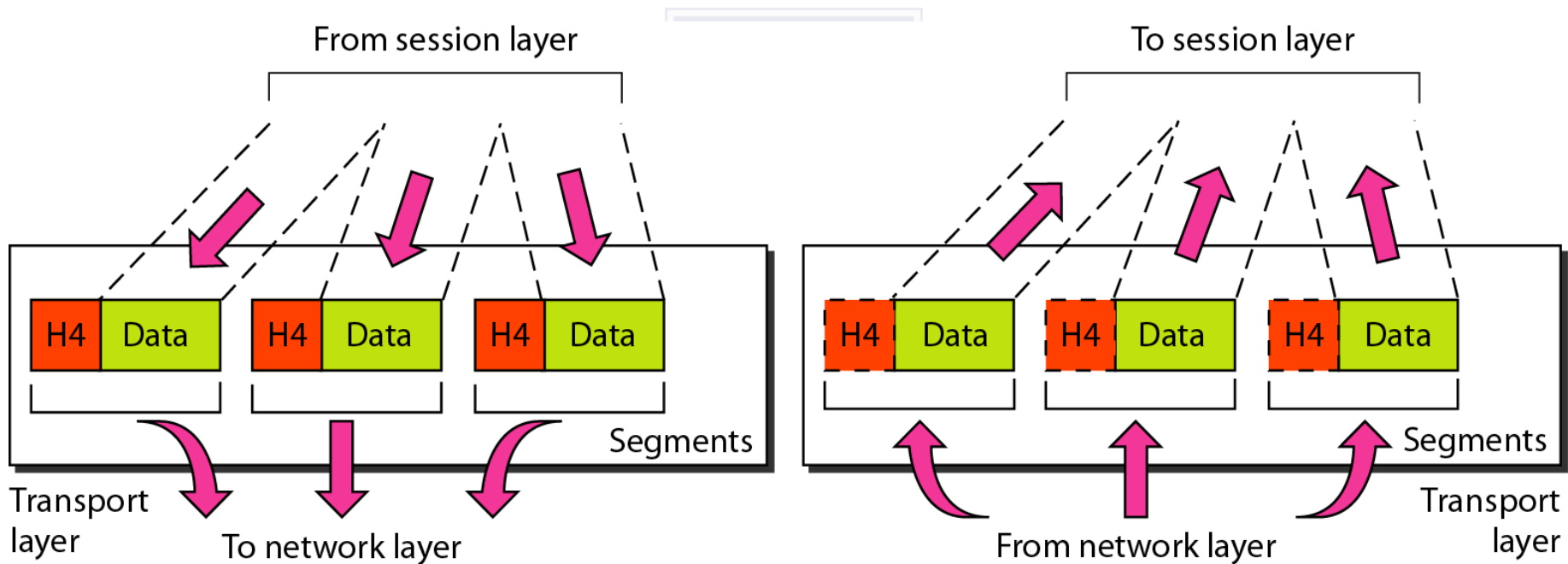
OUTLINE

➢**LAYERS IN THE OSI MODEL**

➢**FUNCTIONS OF TRANSPORT LAYERS**

➢**FUNCTIONS OF SESSION LAYERS**

➢**FUNCTIONS OF PRESENTATION LAYERS**

➢**FUNCTIONS OF APPLICATION LAYERS**

➢**SUMMARY**
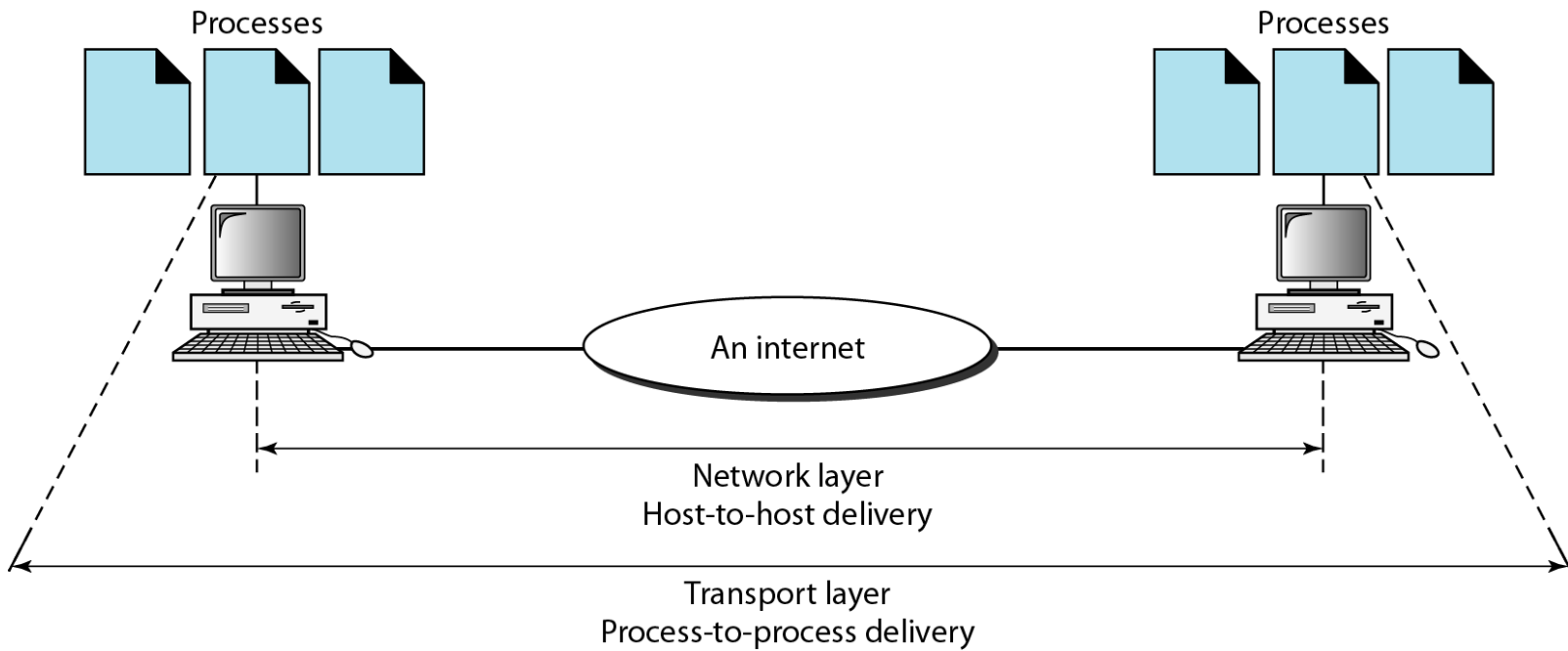
TRANSPORT   LAYER

The transport layer is responsible for the delivery of a message from one process to another.
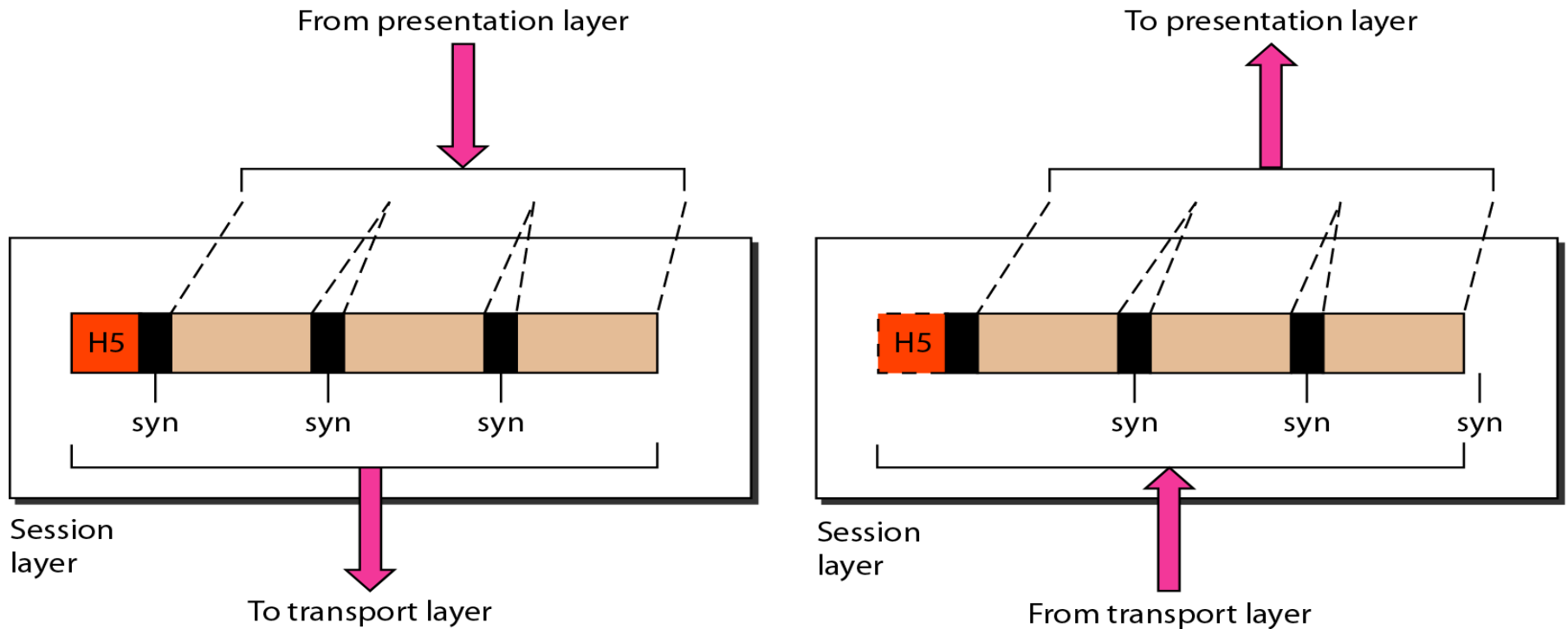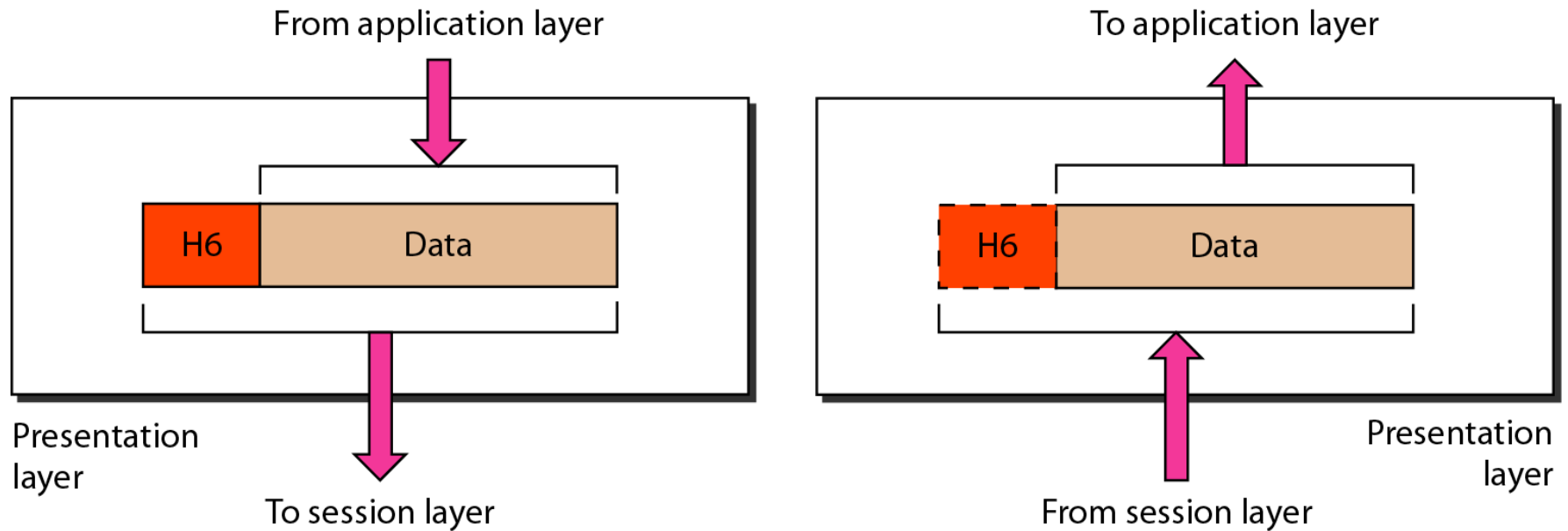
PROCESS-TO-PROCESS DELIVERY

SESSION LAYER

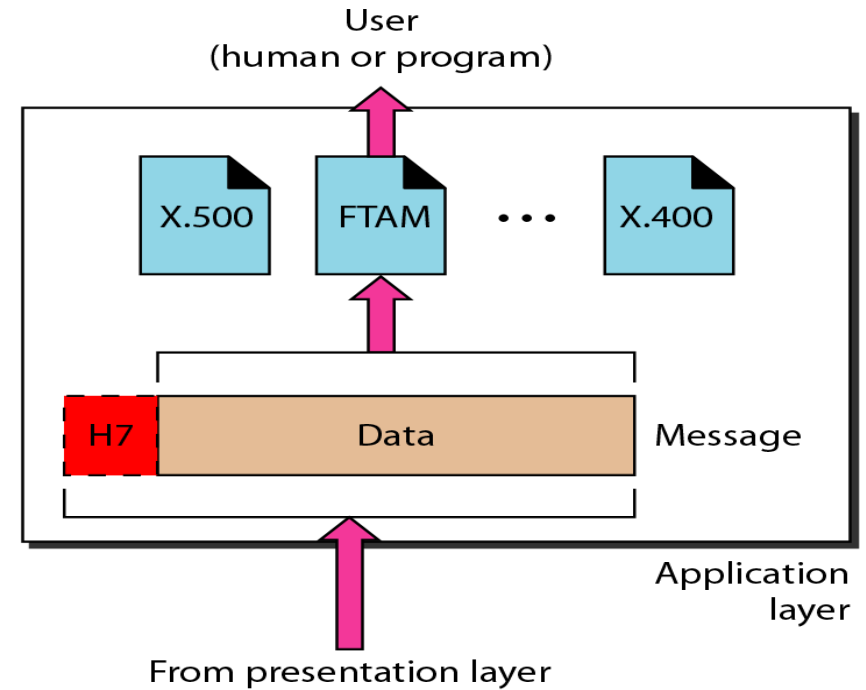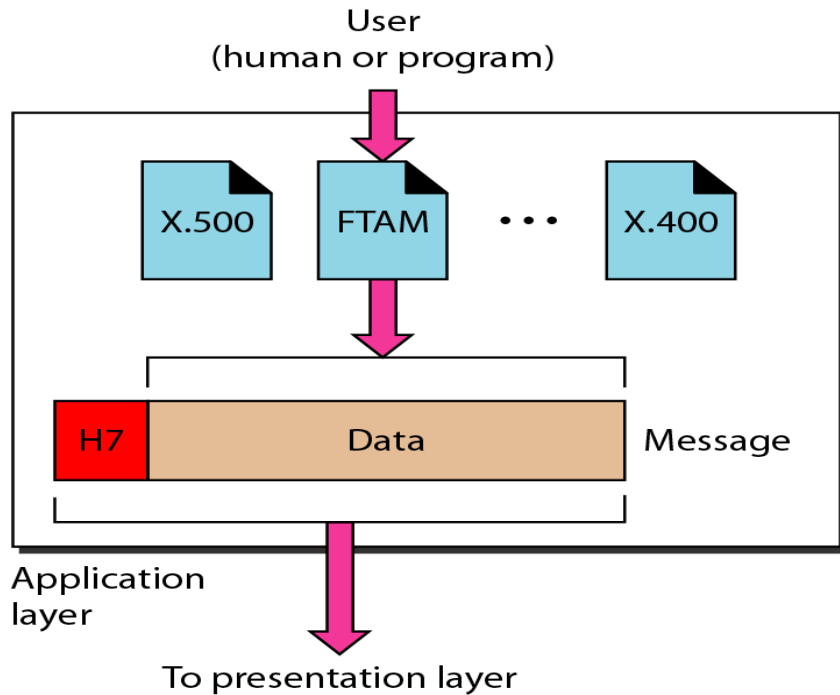The session layer is responsible for dialog control and synchronization

PRESENTATION LAYER

The presentation layer is responsible for translation, compression, and encryption

From application layer

To application layer

H6   Data

H6   Data

Presentation
layer

Presentation
layer

To session layer

From session layer
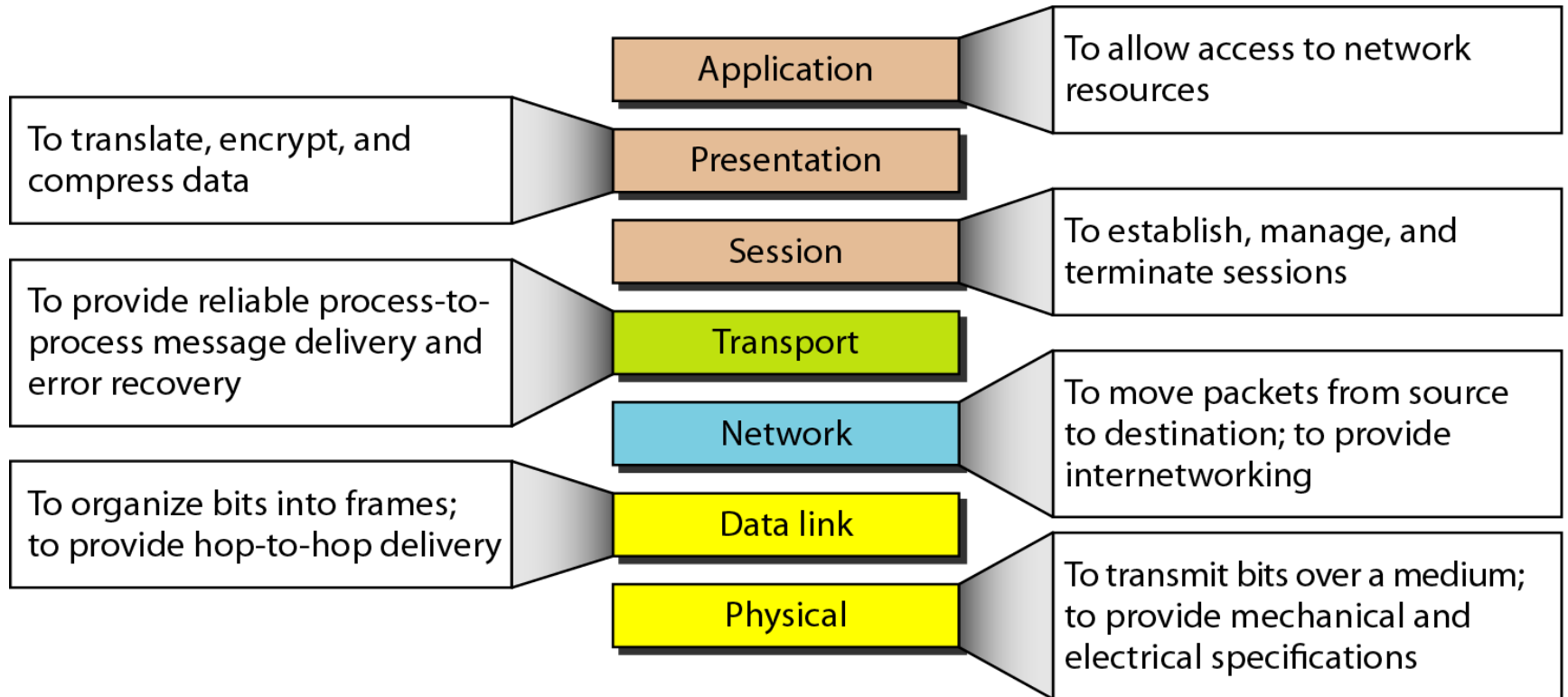
APPLICATION LAYER

The application layer is responsible for providing services to the user

SUMMARY OF SEVEN LAYERS

Layer	Description
Application	To allow access to network resources
Presentation	To translate, encrypt, and compress data
Session	To establish, manage, and terminate sessions
Transport	To provide reliable process-to-process message delivery and error recovery
Network	To move packets from source to destination; to provide internetworking
Data link	To organize bits into frames; to provide hop-to-hop delivery
Physical	To transmit bits over a medium; to provide mechanical and electrical specifications

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

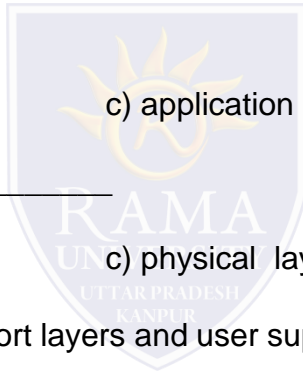3. Transmission data rate is decided by _____

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

REFERENCES

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