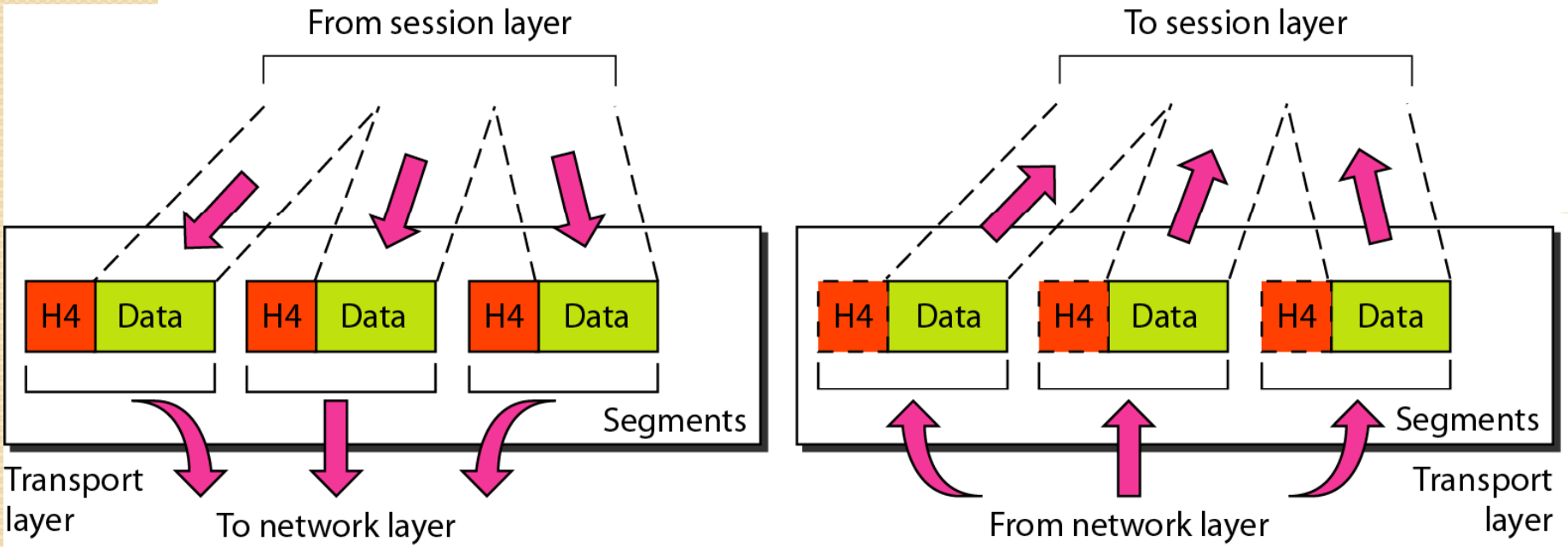
Network Models: OSI Model continued

By
Nidhi Jindal
Assistant Professor
Department of Information Technology
Mail ID: nidhi.jindal@ggnindia.dronacharya.info

Responsibilities of Transport Layer

- Service Point Addressing
- Segmentation & Reassembly
- Connection Control
- Flow Control
- Error Control

Figure 2.10 *Transport layer*



Note

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

Figure 2.11 *Reliable process-to-process delivery of a message*

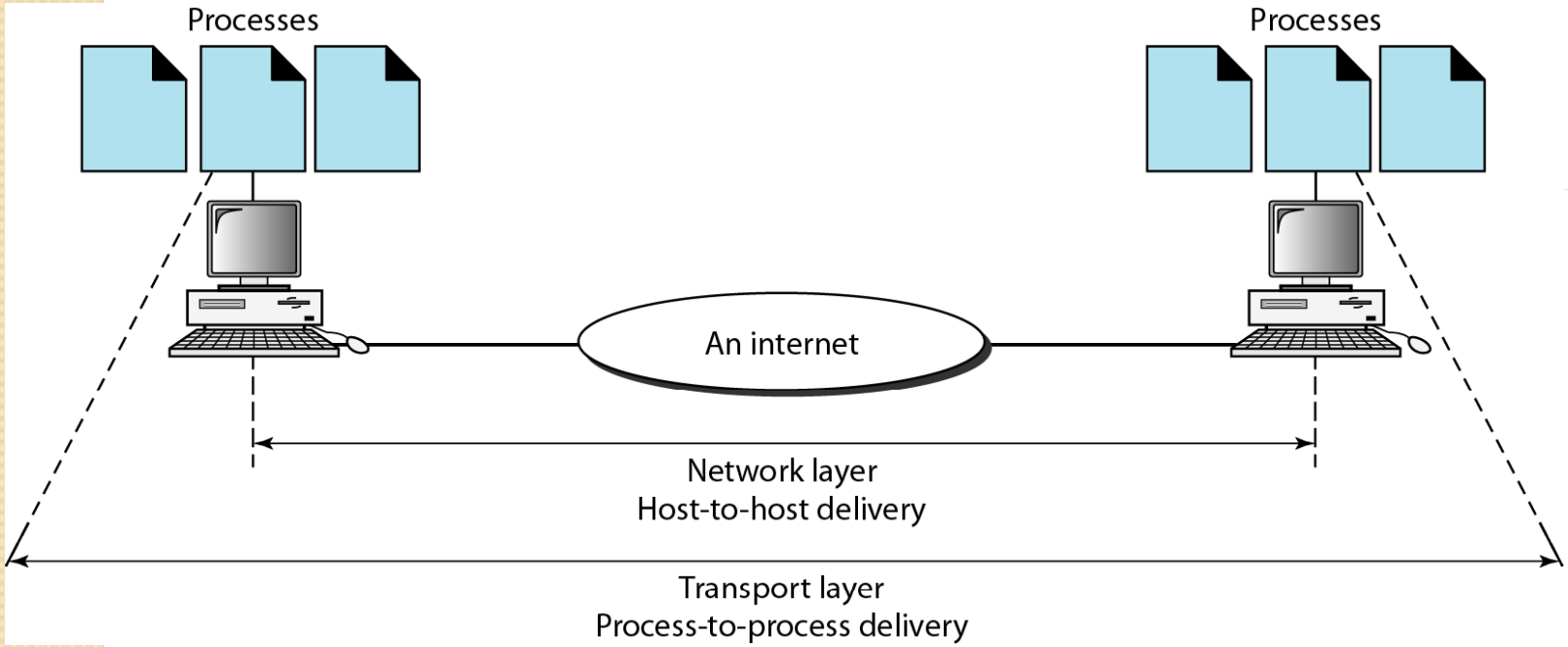
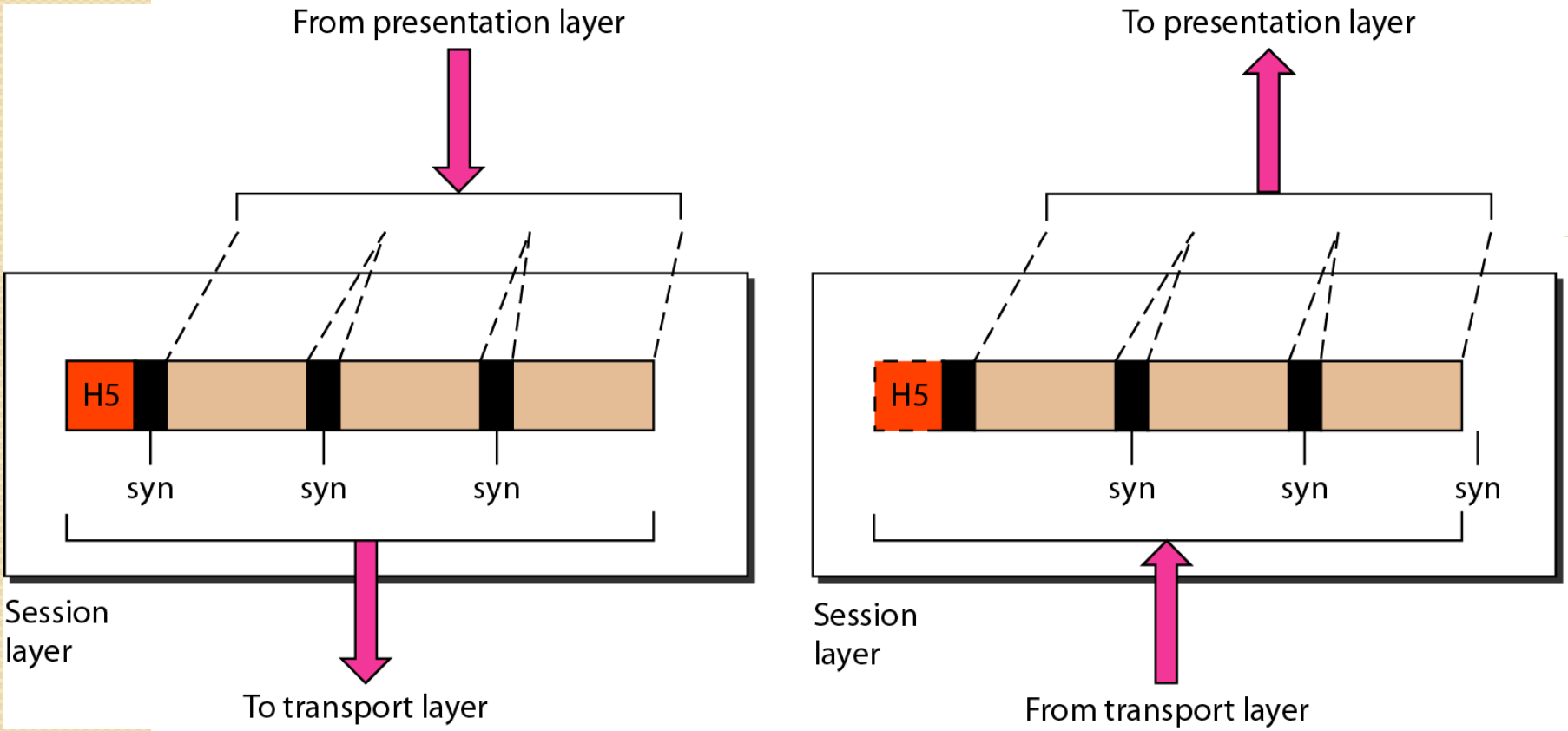


Figure 2.12 *Session layer*



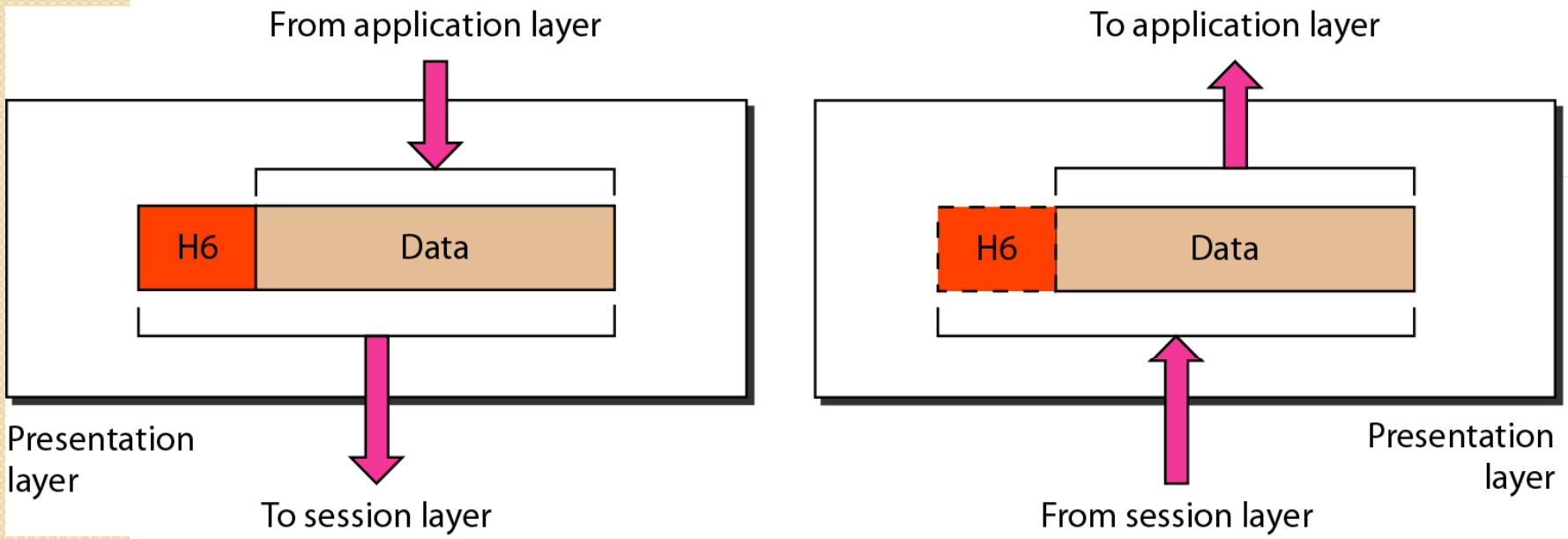
Note

The session layer is responsible for dialog control and synchronization.

Responsibilities of Session Layer

- Dialogue Control
- Synchronization

Figure 2.13 *Presentation layer*



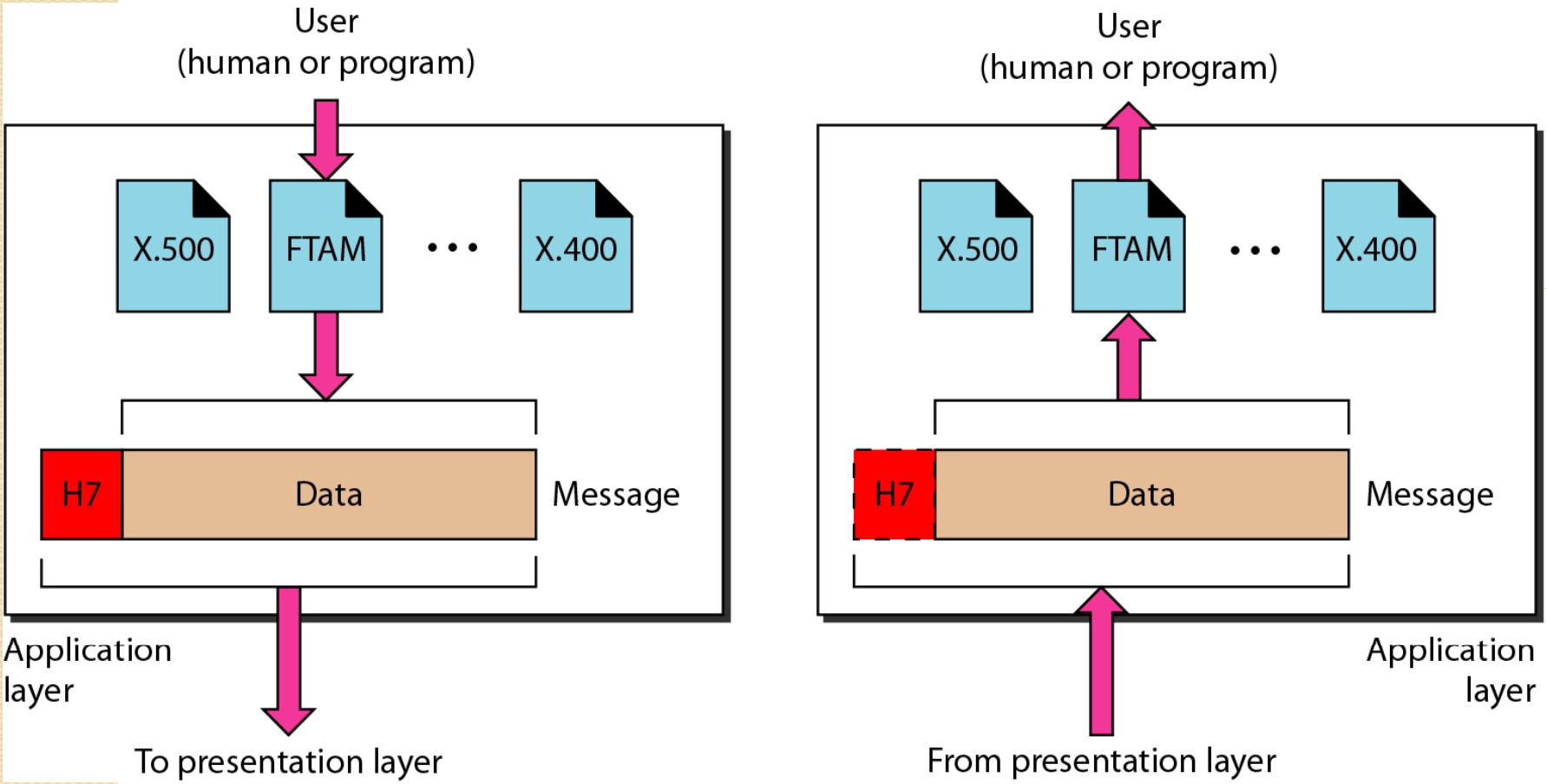
Note

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

Responsibilities of Presentation Layer

- Translation
- Compression
- Encryption

Figure 2.14 *Application layer*



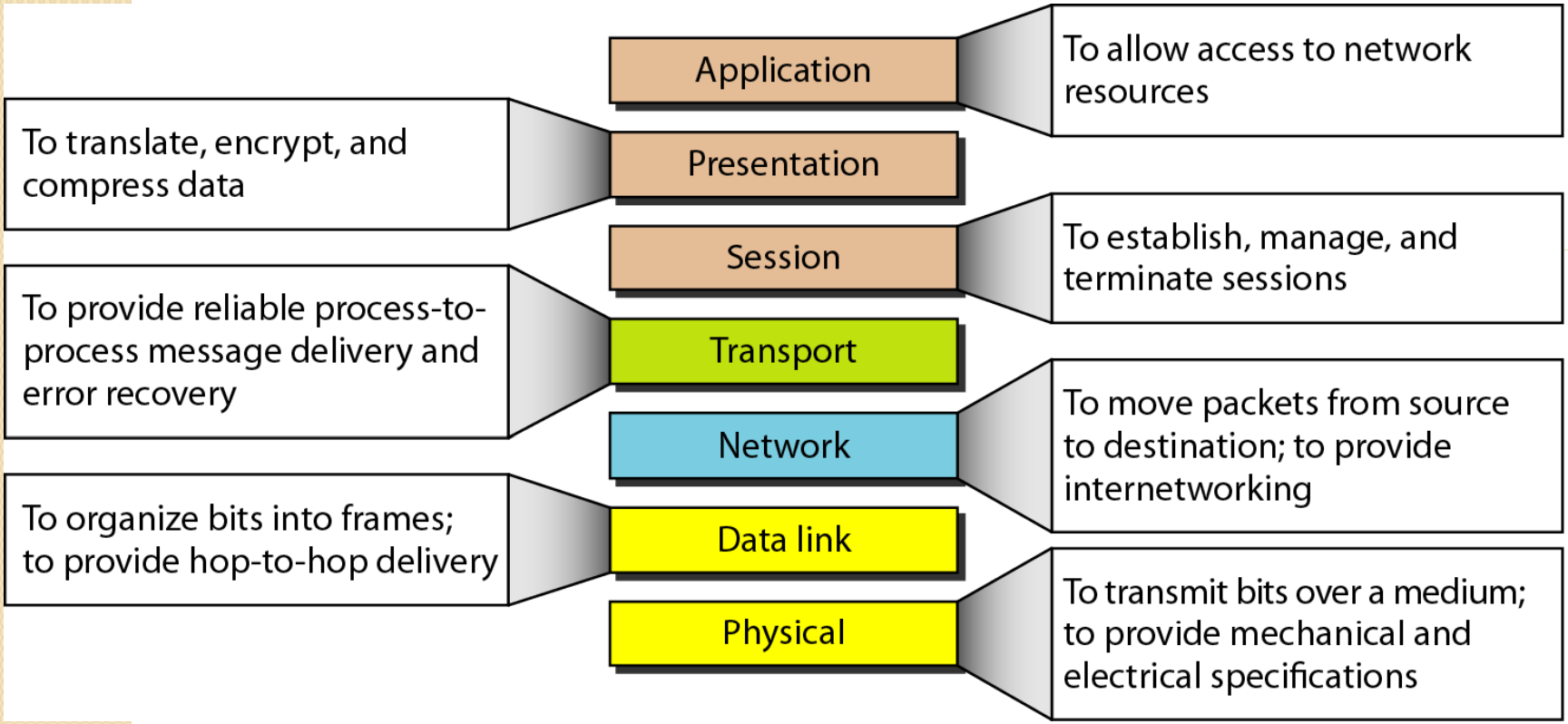
Note

The application layer is responsible for providing services to the user.

Responsibilities of Application Layer

- Network Virtual Terminal
- File Transfer Access and Management
- Mail Services
- Directory Services

Figure 2.15 *Summary of layers*



Applications

- ISO-OSI Network model is a standard given by ISO but is never implemented in practice till date. It is only helpful to understand the whole data communication process layer wise.
- Network model which is practically implemented is TCP/IP model.

Scope of Research

- Cross layer architecture
- Security in network model

Assignment 3

- At which layer of OSI model process to process communication is carried out?

- Discuss limitations of OSI Model