

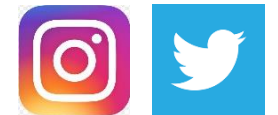


BENNETT
UNIVERSITY
TIMES OF INDIA GROUP

Network structure and architecture, OSI reference model-2

@csebennett

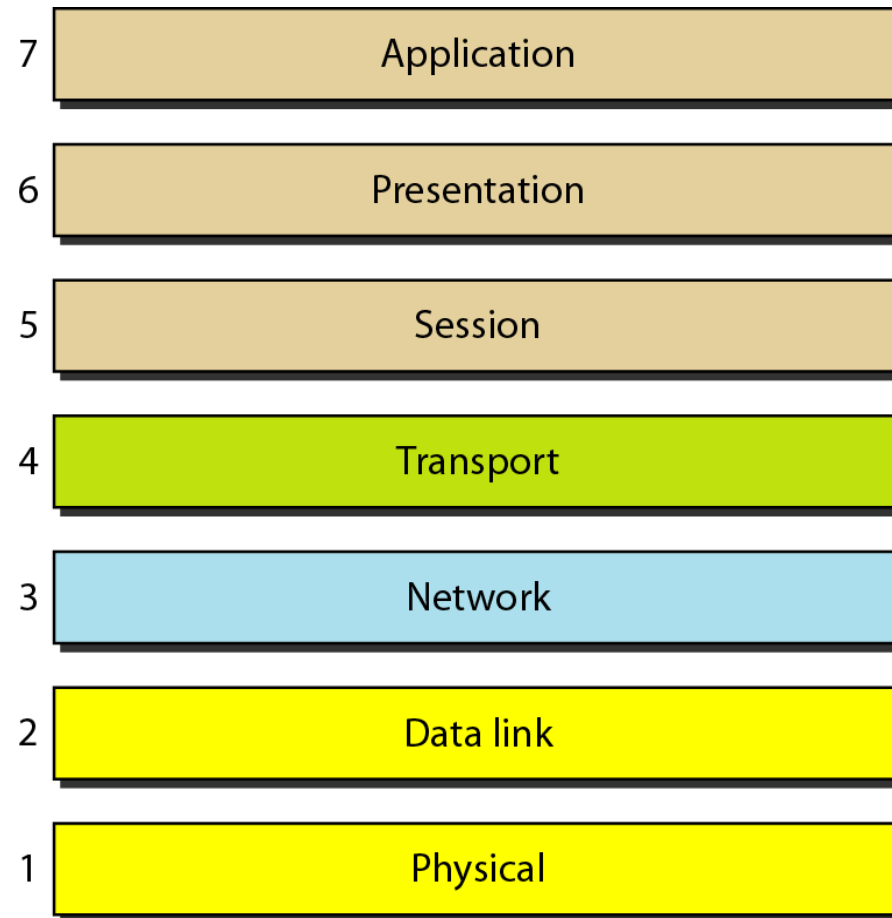
@cse_bennett



Layers of OSI Model



BENNETT
UNIVERSITY
TIMES OF INDIA GROUP



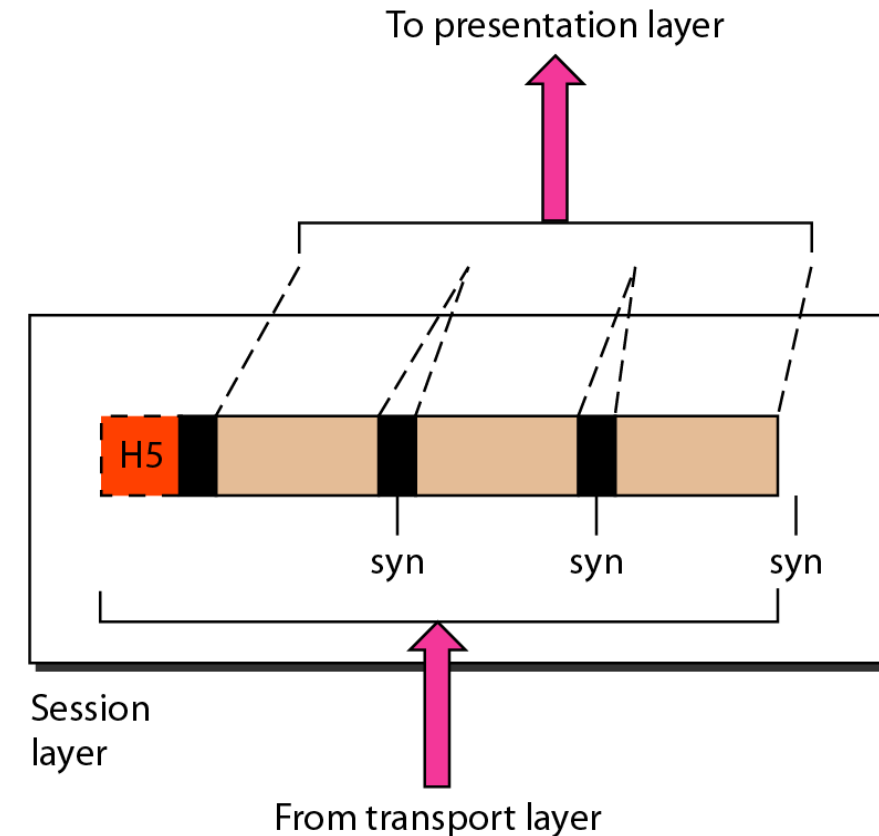
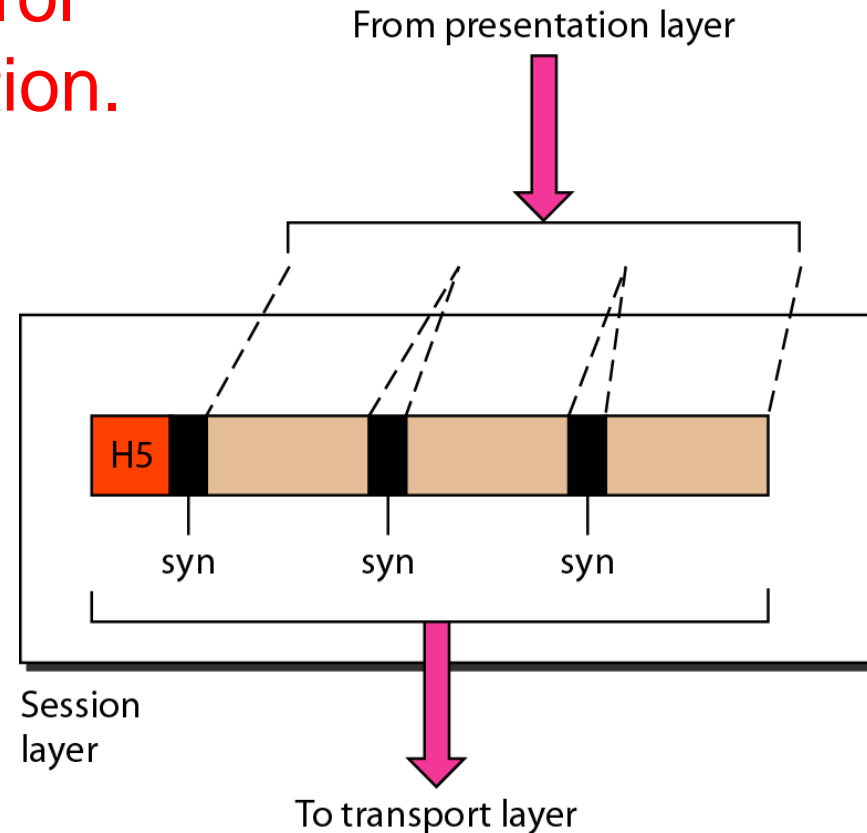
Session Layer



BENNETT
UNIVERSITY
TIMES OF INDIA GROUP

The session layer is responsible for

- Make Session
- Dialog control
- Synchronization.

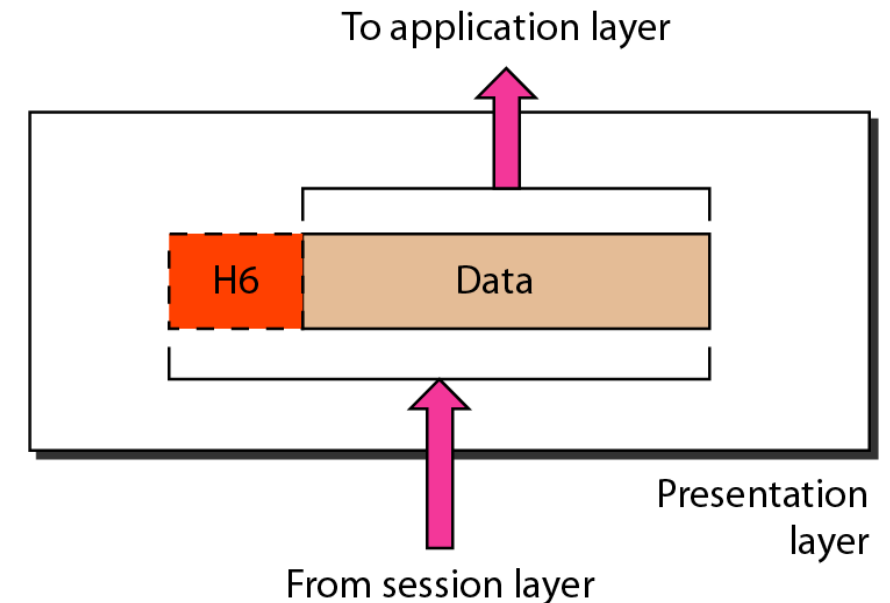
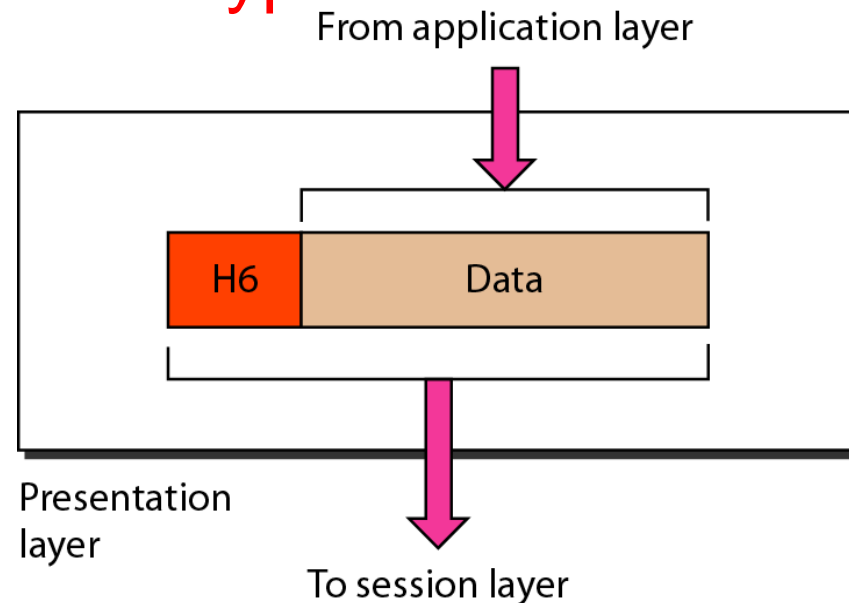


Presentation Layer



BENNETT
UNIVERSITY
TIMES OF INDIA GROUP

- The presentation layer is responsible for
 - Conversion of data from one format to another format
 - Compression/Expansion
 - Encryption/Decryption

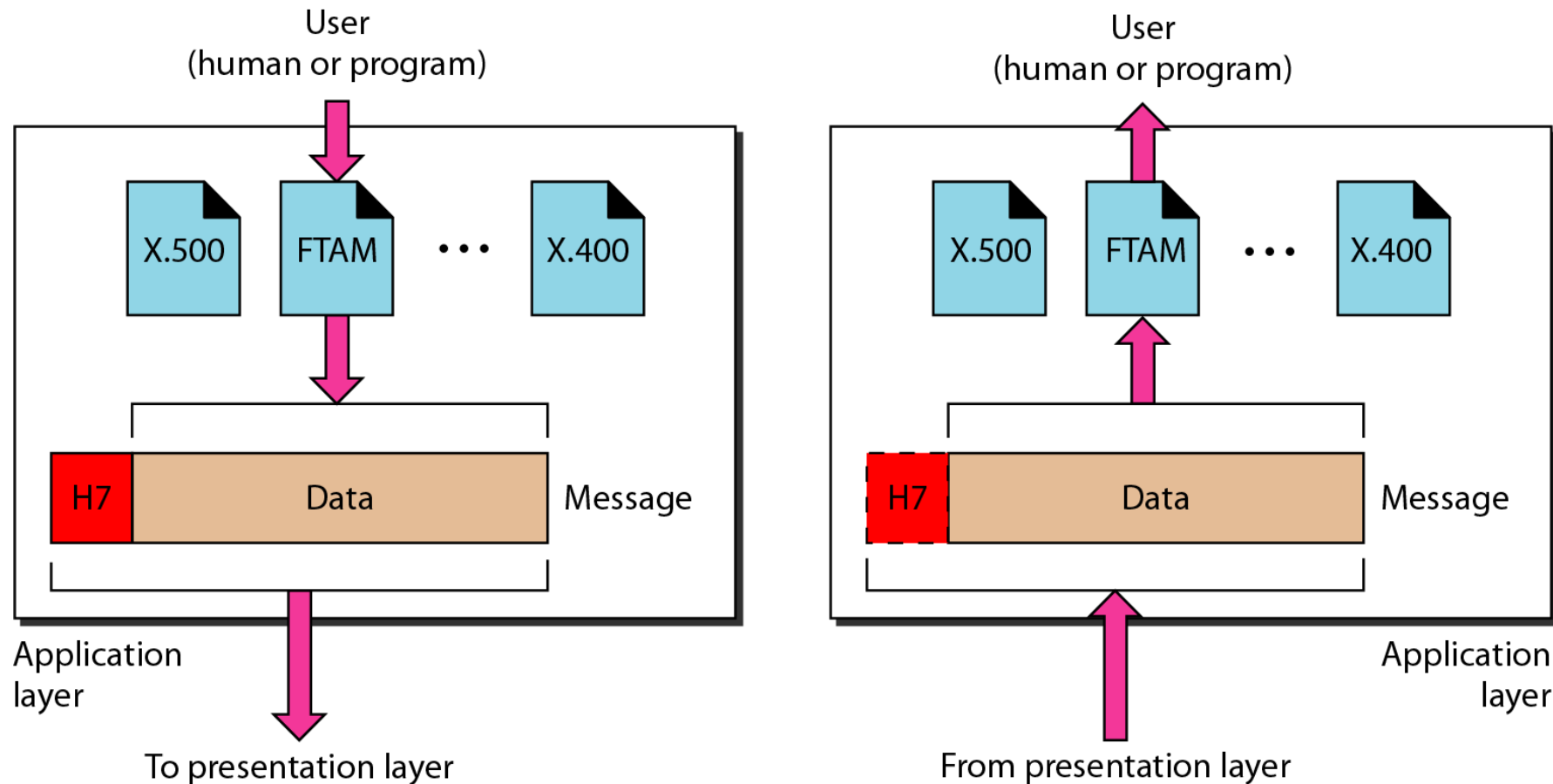


Application layer



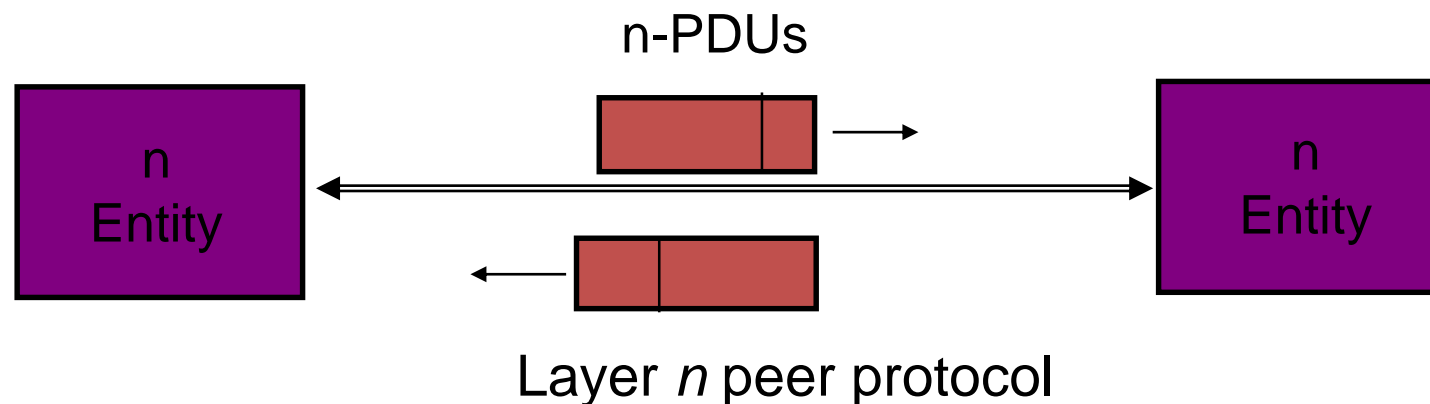
BENNETT
UNIVERSITY
TIMES OF INDIA GROUP

The application layer is responsible for **providing services to the user.**
File Transfer; Mail; Remote Login



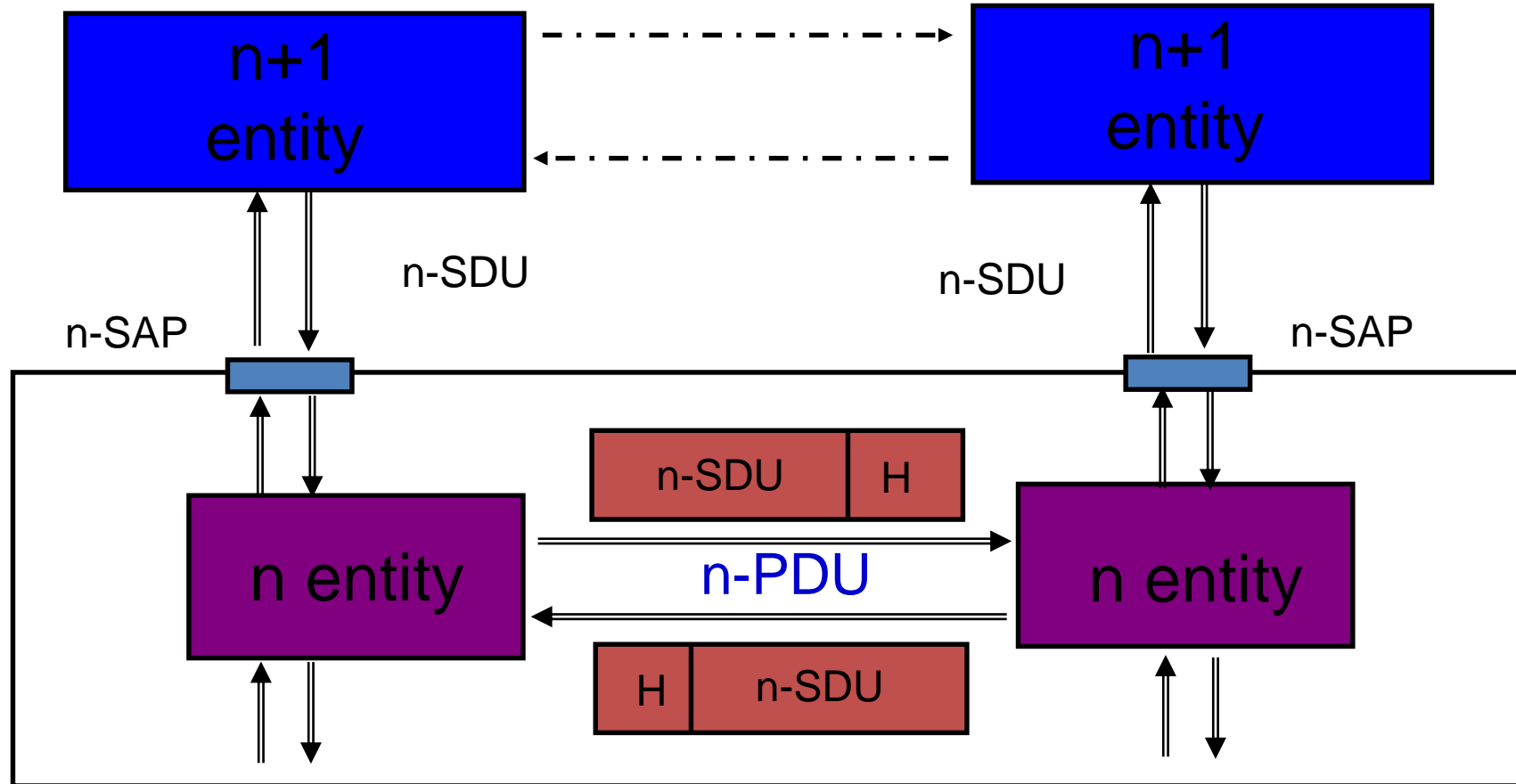


- The processes at layer n are referred to as layer n entities
- The machines at the same layer use a set of precise and unambiguous rules called the *layer- n protocol*.
- Layer- n peer processes communicate by exchanging *Protocol Data Units (PDUs)*





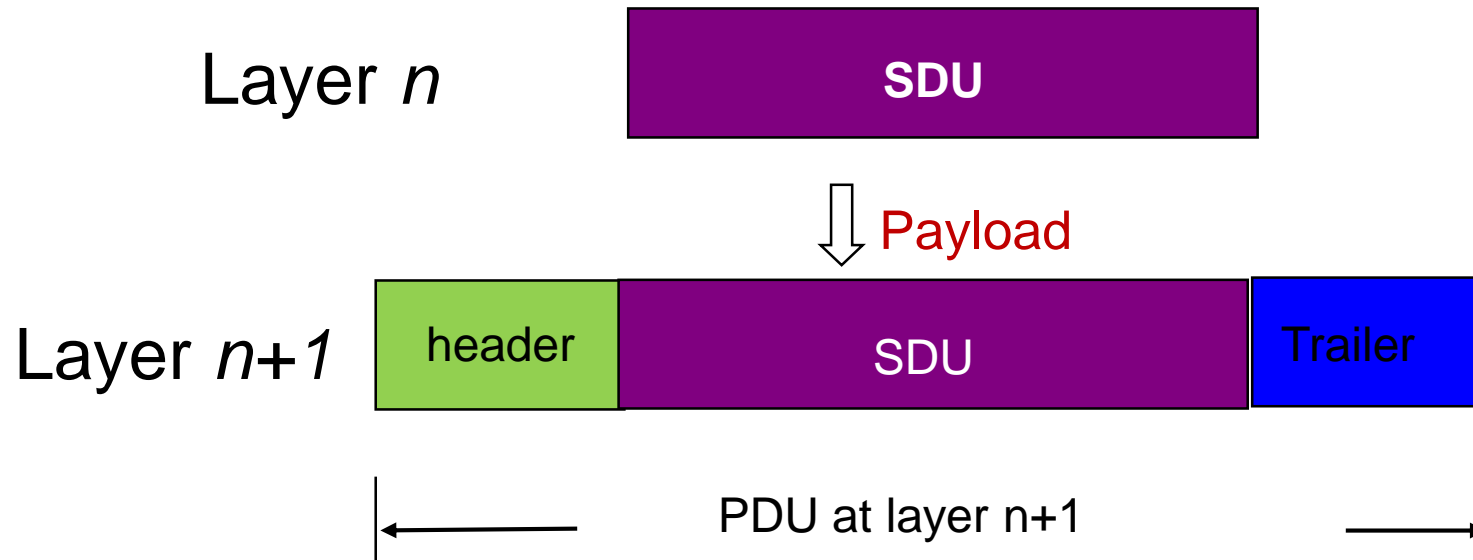
- Layer $n+1$ transfers information by invoking the services provided by layer n
- Services are available at *Service Access Points (SAP's)*
- Each layer passes data & control information to the layer below it until the physical layer is reached and transfer occurs
- The data passed to the layer below is called a *Service Data Unit (SDU)*; SDU's are *encapsulated* in PDU's



Encapsulation



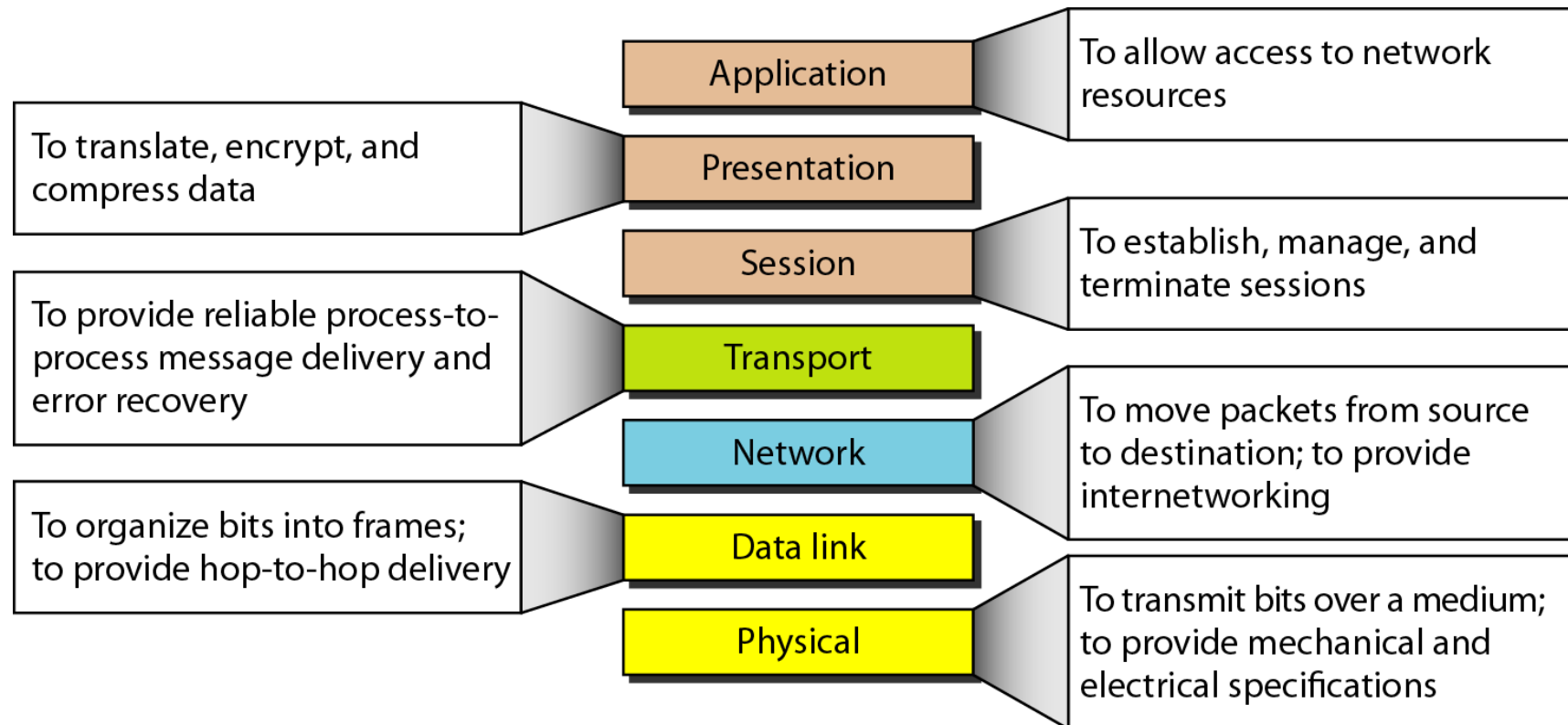
BENNETT
UNIVERSITY
TIMES OF INDIA GROUP

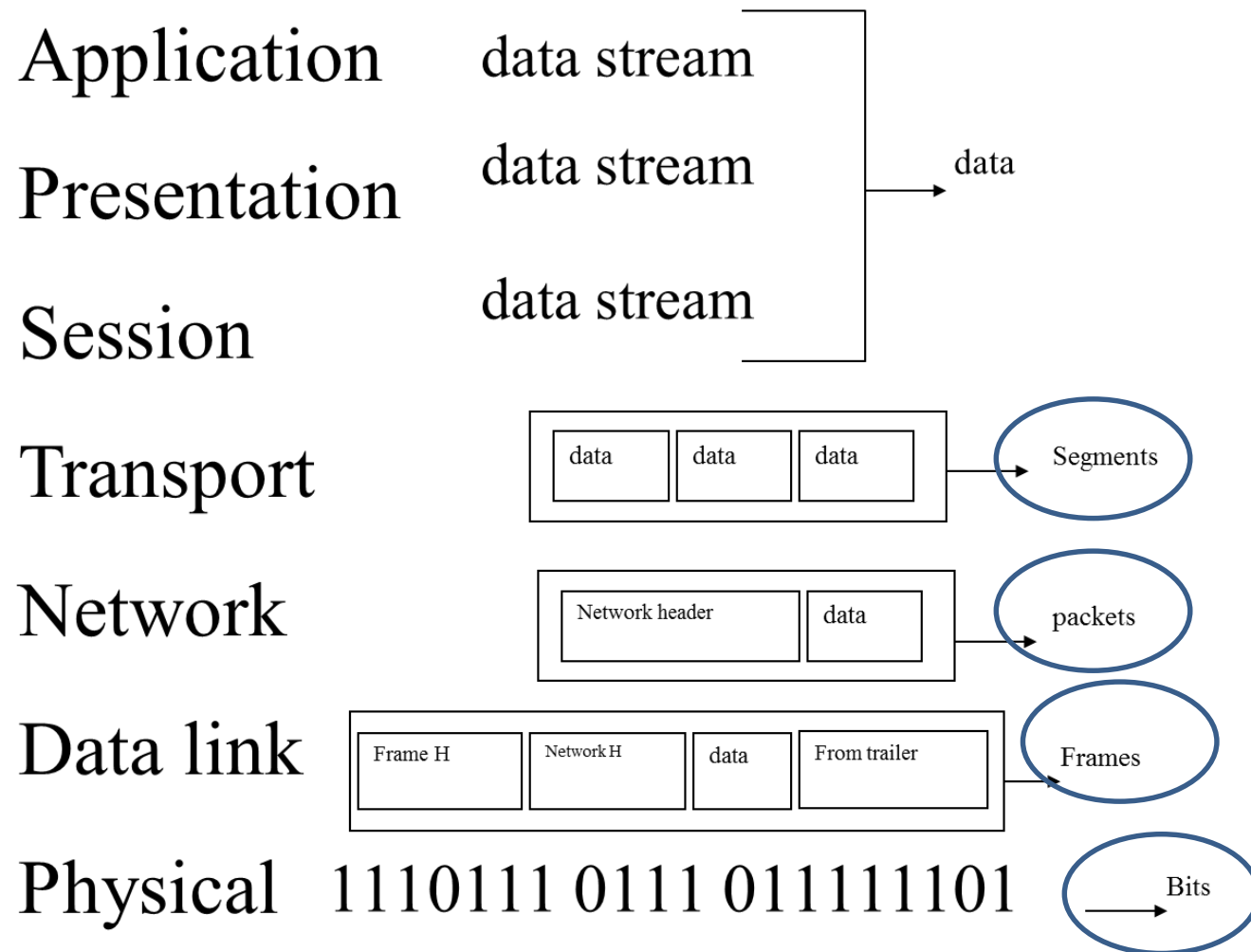


Summary of layers



BENNETT
UNIVERSITY
TIMES OF INDIA GROUP







Q1. In the layer hierarchy as the data packet moves from the upper to the lower layers, headers are

- a) Removed
- b) Rearranged
- c) Added
- d) Modified