

## Assignment no. 01

1. How are OSI and ISO related to each other?

→ ① ISO stands for International Standards Organisation.

② ISO is a multi national organisation which tries to standardize network communication protocols at the international level.

③ OSI stands for Open System Interconnection.

④ OSI is a model that ISO put together as a networking ~~communit~~ communication standard.

2. Match the following to one or more layers of the OSI model:

a. route determination

b. Flow control

c. interface to transmission media

d. provides access for the end user.

→ a. route determination → Network layer

b. Flow control → data link layer; transport layer

c. interface to transmission media → Physical Layer

d. Provides access for the end user → Application Layer

3. Match the following to one or more layers of the OSI model.

a. reliable process to process message delivery - → Transport layer

b. Route selection → Network layer

c. Defines Frames → Data link layer

d. Provides ~~us~~ user services such as frames email and file transfer. → Application layer

e. Transmission of bit stream across physical medium → Physical layer

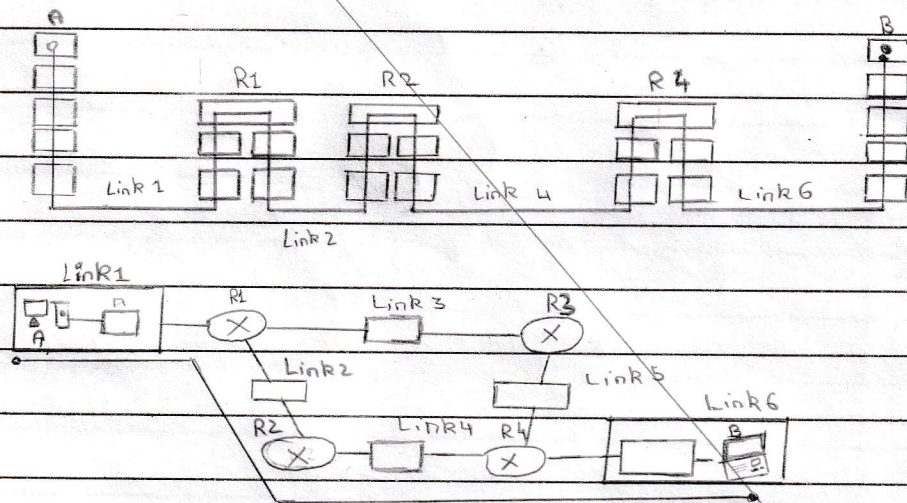


4. Match the following to one or more layers of the OSI model.
- Communicates directly with user's application program → Application Layer
  - Error correction and retransmission → Data link layer, transmission layer
  - Mechanical, electrical and functional interface → Physical Layer
  - Responsibility for carrying frames between adjacent nodes → Data link layer

5. Match the Following to one or more layers of the OSI model.

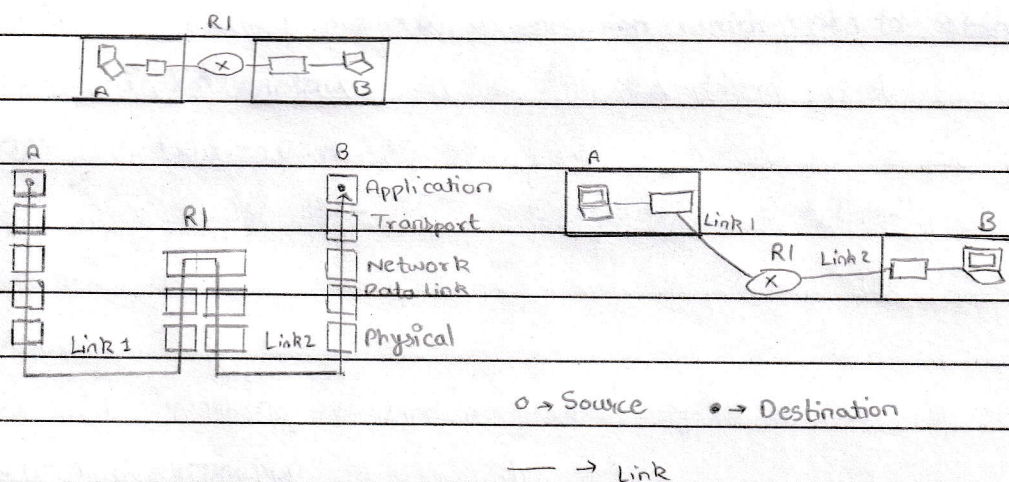
- Format and code conversion services → Presentation Layer
- Establishes, manages, and terminates Sessions → Session Layer
- Ensures reliable transmission of data → Transport Layer, Data Link layer
- Log-in and log-out protocol procedures → Session Layer
- Provides independence from differences in data representation → Transport Layer

6. Show the communication at the application layer for the simple private internet (Figure 2.39).

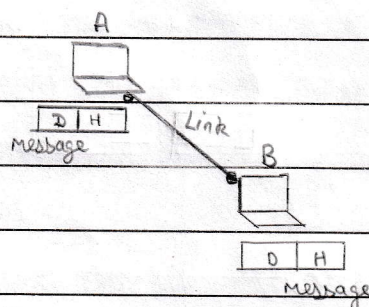
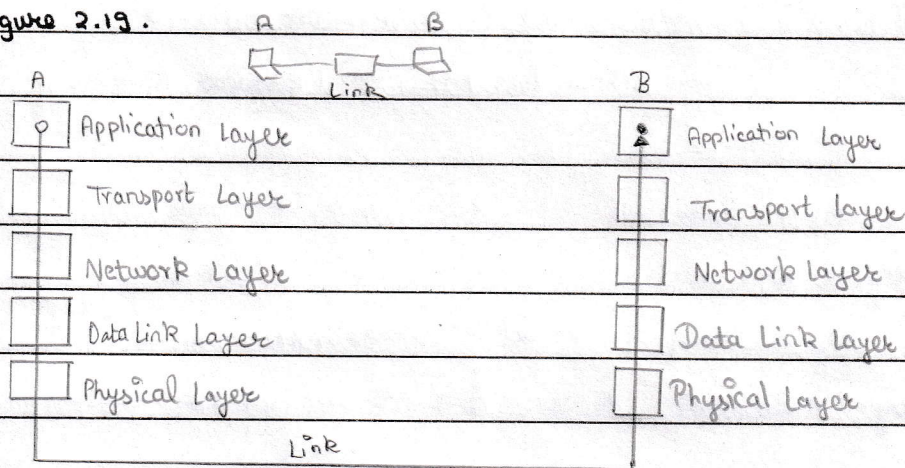




7. Show the communication at the application layer for the simple private internet shown in Figure 2.20.



6. Show the communication at the application layer for the simple private internet in Figure 2.19.



LEGEND	
•	Source
•	Destination
—	Link
D	Data
H	Header