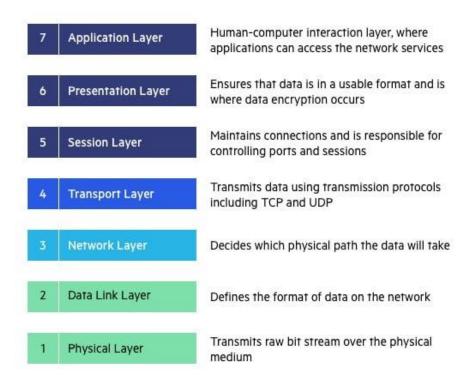
## 20CT1112 - Computer Networks

## Assignment 1

- Q. Describe OSI Model using your own example
- A. OSI Model: The following are the components of the OSI Model.



My example for the OSI Model is Postal Delivery System.

- 1. Physical Layer => Letter
- 2. Data Link Layer => Stamp on the letter
- 3. Network Layer => Postal Department
- 4. Transport Layer => Mail Compartments in Train
- 5. Session Layer => Postal Department in co-ordination with Transport authorities.
- 6. Presentation Layer => Placing a seal on letters
- 7. Application Layer => Post Office/Postman

## Explanation:

- Physical Layer: The letter is the medium through which we transmit the message to be conveyed.
- Data Link Layer: We know that the data link layer defines the format in which the message is to be transmitted. This can be considered equivalent to stamp on postcard or letter which marks its validity or indicates that the post is eligible to be delivered.
- Network Layer: The network layer is responsible for choosing the path through which the data is delivered. The same can be said about the postal department as it decides the best route through which the message can be efficiently delivered.
- Transport Layer: The transport layer takes services from the Network layer and provides services to the Application layer. In the postal service system, this can be thought of as the actual transport i.e., the train or bus through which the transport of the data takes place while some actual protocols.
- Session Layer: maintains connections between two different postal departments and checks the no of post cards received.
- Presentation Layer: Since the presentation layer deals with encryption and decryption of data, a seal to the post card helps in protection of data as encryption and the data can be read by removing the seal acts as decryption of data.
- Application Layer: This can be thought of as the layer helps in userservices because we can access the postcards from post office to read the data (or) can send postcards to post office.