Link: <http://www.studytonight.com/computer-networks/osi-model-physical-layer>

**Physical Layer**

#### Replace the content before : FUNCTIONS OF TRANSPORT LAYER:

With the following :

The basic function of the Transport layer is to accept data from above, split it up into smaller units, pass these to the network layer, and ensure that the pieces all arrive correctly at the other end. Furthermore, all this must be done efficiently and in a way that isolates the upper layers from the inevitable changes in the hardware technology.

The transport layer also determines what type of service to provide to the session layer, and, ultimately, to the users of the network. The most popular type of transport connection is an error-free point-to-point channel that delivers messages or bytes in the order in which they were sent.

The transport layer is a true end-to-end layer, all the way from the source to the destination. In other words, a program on the source machine carries on a conversation with a similar program on the destination machine, using the message headers and control messages.

**Design Issues with the Transport Layer**

* Accepting data from Session layer, split it into **segments** and send to the network layer.
* Ensure correct delivery of data with efficiency.
* **Isolate** upper layers from the technological changes.
* Error control and flow control.

**Replace the given image with this and put it at the end of the page: (Rest of the content is fine and verified)**

