

IT1X62 Network Technology

Tutorial 2 – Network Protocols and Communications

1. Discuss the benefits of using a layered model in communicating programs.
2. List the 7 layers in the OSI reference model (from the highest to the lowest).
3. Using a diagram, map the corresponding layers between the OSI Reference Model and the TCP/IP Networking Model.
4. What is the primary purpose of the lower four layers?
 - a. Format the user data
 - b. Provide reliable communication of data across a network
 - c. Implement the OSI architecture
 - d. Decrease the response time of user communications
5. Which OSI model layers are concerned primarily with applications:
 - a. All seven
 - b. The top three layers
 - c. The lower four layers
 - d. The bottom two layers
6. Match the following layers on the left column with the data units on the right column:

Transport Layer	Bits
Network Layer	Frames
Data Link Layer	Packets
Physical Layer	Segments

7. Using a diagram, briefly explain the concept of encapsulation.

