

EL 5373 Pop Quiz Seven

Name: _____

Student ID: _____

I. Select ONE correct answer for the following questions.

1. TCP supports connection-oriented services, and many Internet applications are running on TCP. But we still say the Internet is connectionless network, why?
 - a) Because some applications are running on UDP.
 - b) Because there are packets get dropped in the Internet.
 - c) **Because TCP is over IP, and IP is not connection-oriented.**
 - d) Because the Internet is a packet switching network.
2. How does a host support multiple applications over Internet?
 - a) Use multiple IP addresses one for each application
 - b) Use multiple hardware interfaces one for each application
 - c) Use multiple media access addresses (MACs) one for each application
 - d) **Use one IP address but multiple service access points, a.k.a. SAPs or transport ports one for each application**
3. Internet protocols define _____.
 - a) format of messages
 - b) actions taken on message transmission and receipt
 - c) order of messages sent and received among network entities
 - d) **All of the responses above are correct**
4. Each UDP segment must contain
 - a) Source or Destination address
 - b) Only Source port
 - c) Only Destination port
 - d) **Source and Destination port**
5. What does UDP provide that is NOT provided by IPv4?
 - a) Checksum for error detection.
 - b) **Identifying Service Access Point (SAP), a.k.a. port numbers.**
 - c) PDU encapsulation.
 - d) Specifying packet length.
6. After a first TCP half close, the data transfer from the Passive Close side
 - a) is not allowed since this side has responded with a FIN message.
 - b) **is allowed with normal data acknowledgement from the Active Close side.**
 - c) does not require acknowledgement since the other side has no data for sending ACK piggyback.
 - d) does not require data acknowledgement since the Active Close side has closed its half of the connection.