

EL 5373 Pop Quiz Eight

Name: _____

Student ID: _____

- I. Select ALL correct answer(s) in each of the following multiple choice questions.
- Which of the following IP address class is Multicast
 - Class A
 - Class D
 - Class C
 - Class B
 - An Ethernet station de-multiplexes payload data from the following frames:
 - Frames addressed to the station's own (Ethernet hardware) address.
 - Frames that perform link layer functions with one or more specified Ethernet multicast addresses.
 - All frames with the Ethernet Broadcast address (all 1's).
 - All frames transferred through the shared medium that the station attaches to.
 - A gateway has a pool of 4 public IP addresses to support 10 hosts. In order to let the 10 hosts simultaneously access Internet, the gateway must implement
 - either NAT or PAT.
 - both NAT and PAT.
 - NAT only.
 - neither NAT nor PAT.
 - The least significant 23 bits in a 48-bit Ethernet address unambiguously identify _____.
 - an IP multicast router
 - a host
 - an IP multicast group
 - none of the above
 - Consider an HTTP client that wants to retrieve a Web document at a given URL. The IP address of the HTTP server is initially unknown. What application layer and transport layer protocols are needed in this scenario?
 - DNS and HTTP
 - TCP for DNS; UDP for HTTP
 - UDP for DNS; TCP for HTTP
 - None of the responses above is correct.
 - Consider sending a 1300 byte datagram into a link that has an MTU of 500 bytes.
 - Three fragments are created with offsets 0, 500 1000
 - Three fragments are created with offsets 0, 480 and 960.
 - Three fragments are created, with offsets 0, 460 and 920.
 - Three fragments are created, with offsets 0, 60 and 120.
 - If the host ID field of an IP address contains all 1's, what does that mean?
 - It's actually not a valid address
 - It's assigned to a special host in the subnet
 - It's used for broadcasting in the subnet
 - It's for signaling