

Department of Intelligent Mechatronics Engineering
Sejong University
Computer Networks

Course # 003284

Quiz # 2

Credit Hours: 03
Quiz Date: June 4, 2025
Course Instructor: Prof. Amad Zafar

Semester: 2025-1
Total Marks: 10
Quiz Time: 15 Minutes

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| <p>1) The TTL field of the IP datagram has a value of 10. How many routers (max) can process this datagram?</p> <ul style="list-style-type: none">a) 11b) 5<input checked="" type="radio"/> c) 10d) 1 <p>2) What is the header size of the IP datagram with TCP as an upper-layer protocol?</p> <ul style="list-style-type: none"><input checked="" type="radio"/> a) 40 bytesb) 20 bytesc) 28 bytesd) Both a) & b) <p>3) Longest prefix match performed using</p> <ul style="list-style-type: none"><input checked="" type="radio"/> a) TCAMsb) RAMc) ROMd) None of the above <p>4) In classful addressing, the address space of IPv4 is divided in</p> <ul style="list-style-type: none"><input checked="" type="radio"/> a) 5 Classesb) 3 Classesc) 4 Classesd) 2 Classes <p>5) The port number of the DHCP server is.</p> <ul style="list-style-type: none">a) 68<input checked="" type="radio"/> b) 67c) 57d) None of the above <p>6) A Network Address Translator (NAT gateway) changes the following fields of a packet going from the internal (local area) network to the external (wide area) network</p> <ul style="list-style-type: none">a) Source IP address<input checked="" type="radio"/> b) Source IP address and port numberc) Destination IP addressd) Destination IP address and port number | <p>7) OSPF routing uses</p> <ul style="list-style-type: none"><input checked="" type="radio"/> a) Dijkstra algorithmb) Distance vector protocolc) BGPd) None of the above <p>8) In inter-AS routing, which protocol is used to propagate reachability information to all AS-internal routers.</p> <ul style="list-style-type: none">a) eBGP<input checked="" type="radio"/> b) iBGPc) NATd) SDN <p>9) Which protocol do SDN switches use for communication with the SDN controller?</p> <ul style="list-style-type: none">a) OSPFb) BGP<input checked="" type="radio"/> c) OpenFlowd) IP <p>10) In classful addressing, the IP address like 190.159.5.20 has a network ID portion of:</p> <ul style="list-style-type: none">a) 8 bits long<input checked="" type="radio"/> b) 16 bits longc) 24 bits longd) None of the above |
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