

CSE 322 Jul 2021 Final Quiz

Total points 31/45 ?

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0 of 0 points

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Questions

31 of 45 points

45 Questions. Time 30 minutes. Each question has 1 point. Wrong answer will cause 0.25 to be deducted.



✓ During video streaming, which of the following can be ensured by the transport layer protocol? 1/1

- ☒ Individual packet's integrity through checksum. ✓
- ☐ Ordering of packets.
- ☐ Protection against duplicate packets.
- ☐ None of the above.

✓ What is the AD value of RIP protocol? 1/1

- ☒ 120 ✓
- ☐ 90
- ☐ 110
- ☐ 100

✗ In TCP, the value of the acknowledgement field in a sent segment is the sequence number ____ . 0/1

- ☐ of the next byte the receiver expects to receive.
- ☒ of the last byte successfully received by the receiver. ✗
- ☐ of the first byte received out of sequence by the receiver.
- ☐ generated randomly.



✓ Maximum how many processes can bind to a single port?

1/1

- ☐ 2^4
- ☐ 2^8
- ☒ 2^0
- ☐ 2^16



✓ In ns3, which of the following is generally set to change model behavior?

1/1

- ☒ Attributes
- ☐ Interfaces
- ☐ Containers
- ☐ Helpers



✓ What is the subnet mask of the IP address of [192.168.10.0/26](#)?

1/1

- ☐ 255.255.255.0
- ☐ 255.255.255.128
- ☐ 255.255.255.240
- ☒ 255.255.255.192



✗ Which of the following is a layer 1 device?

0/1

- ☒ Switch
- ✓ ☐ Hub
- ☐ Router
- ☐ None of the options



✓ Which one of the following is not a private address?

1/1

- ☐ 10.1.2.3
- ☒ 172.32.1.1
- ☐ 192.168.5.1
- ☐ None of the above



✓ The ids on Nodelist array in NS3 are set in order which

1/1

- ☒ The nodes are created in the simulation file
- ☐ The earliest start time of an application installed on the nodes
- ☐ Any netdevice was first installed on the nodes
- ☐ Internet Stack is installed on the nodes



✓ A router has [172.16.5.1/22](#) address setup on FastEthernet0. Which of the following can be valid host IDs on the LAN interface attached to the router? 1/1

- ← Broadcast
- ☐ 172.16.7.255
 - ☒ 172.16.5.255
 - ☐ 172.16.3.1
 - ☐ 172.16.2.255



✓ A trace sink can be attached to a trace source using ____ 1/1

- ☒ Config::Connect
- ☐ Config::LookupMatches
- ☐ Config::Set
- ☐ Config::SetDefault



✓ Which of the following does not inherit the Application class? 1/1

- ☐ BulkSendApplication
- ☐ PacketSink
- ☒ TcpL4protocol
- ☐ UdpEchoServerHelper



✓ In Wireshark, Promiscuous mode is used during _____

1/1

- ☒ Packet capturing
- ☐ Packet analysis
- ☐ Statistics generation
- ☐ Flow analysis

✓

✓ RIP sends _____ to all its neighbors.

1/1

- ☐ Connected networks info
- ☐ Topology table
- ☒ Full routing table
- ☐ ICMP hello

✓

✓ Which of the following module contains a simulator class used to create, schedule, and cancel events in ns3? 1/1

- ☐ network
- ☐ mobility
- ☐ applications
- ☒ core

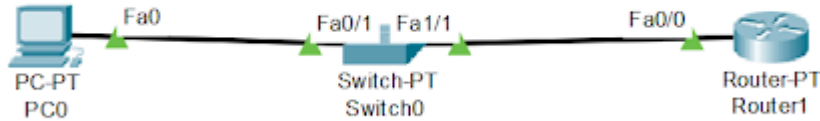
✓



✗ There is no default gateway in PC0. What will happen if we ping a packet to 0/1 Router1 from PC0?

192.168.0.101/24
No gateway

192.168.0.100/24



- ☐ The packet will reach Router1, but Router1 will not be able to send a reply
- ☒ The packet will reach Router1 and Router1 will reply successfully
- ☐ The packet will not leave PC0
- ☐ Switch0 will drop the packet from PC0

✗

✓ Which cable should be used to connect two switches together?

1/1

- ☒ Cross-over
- ☐ Straight through
- ☐ Serial cable
- ☐ Console cable

✓



✗ Why does the first ping to a different network always fail in Packet Tracer? 0/1

- ☒ It takes time for ARP resolution for the first time
- ☐ It is a bug in Packet Tracer
- ☒ It takes time for Routers to exchange routing tables for the first time
- ☐ Because of the slow start of the TCP congestion window

✓ "pointToPoint.SetDeviceAttribute ("DataRate", StringValue ("5Mbps"));" – 1/1
which rate is referred here?

- ☐ Data queuing rate
- ☐ Data storage rate
- ☒ Data transmission rate
- ☐ Data filtering rate

✓ What is the last method called in an ns3 simulator code? 1/1

- ☐ Simulator::Exit ();
- ☐ Simulator::Stop ();
- ☒ Simulator::Destroy ();
- ☐ Simulator::Quit ();



✓ Which of the following is not true for ns3?

1/1

- ☒ Scripting in ns-3 must require coding both in C++ and Python ✓
- ☐ In ns3, the simulator is written entirely in C++, with optional Python bindings
- ☐ A Python-based build system is used for ns3
- ☐ ns3 generates pcap packet trace files

✓ IPv4 addresses are assigned on top of _____

1/1

- ☐ Application Container
- ☐ Internet Stack Helper
- ☒ Net Device Container ✓
- ☐ Node Container

✓ "1190003744.940437 61.184.241.230 -> 128.32.48.169 SSH Encrypted request packet len=48" – this is an example output generated by –

1/1

- ☒ tshark ✓
- ☐ tcpdump
- ☐ Ethereal
- ☐ Wireshark



✓ If we filter out a TCP Stream through "Follow -> TCP Stream" in Wireshark, 1/1
which of the following types of packets will not be displayed in the output?

- ☐ TCP
- ☐ HTTP
- ☒ DNS
- ☐ None of the above



79
✗ What cable should be used to connect a router and a PC? 0/1

- ☐ Cannot be connected by any cable
- ☒ Copper straight-through
- ☐ Copper cross-over
- ☐ Serial DTE



✗ What is the default value of time resolution in ns3? 0/1

- ☐ One millisecond
- ☐ One second
- ☐ One microsecond
- ☐ One nanosecond



✓ Which of the following is not logged through LOG_ALL in ns3?

1/1

- ☐ Error messages
- ☒ Overall statistics messages
- ☐ Warning messages
- ☐ Informational messages about program progress

✓

✓ Ping message uses _____ protocol.

1/1

- ☐ ARP
- ☐ IPv4
- ☐ IPv6

☒ ICMP

✓

✗ Which of the following is false?

0/1

- ☐ By default, global routing is installed on all nodes in Ns3 when created
- ☐ We can count the no. of dropped packets in the data link level through ascii trace of the point-to-point netdevices
- ☐ Only enqueue, dequeue, receive and drop events are logged in the default ascii trace of the point-to-point netdevices
- ☒ All are true.

✗



✗ Which one of the following is a GUI-based packet forwarding tool?

0/1

☐ tcpdump

☐ tshark

☒ Wireshark

☐ None of the above

Dist capture all

✗

✓ Which command can show path information between source and destination?

1/1

☐ arp -a

☐ show ip path

☐ netstat

☒ tracer

✓

779 ✗ The task of Transport Layer is to provide _____ communication?

0/1

☐ node-to-node

☐ process-to-process

☒ host-to-host

☐ All of the above

✗



✗ Which of the following is not true?

0/1

- ☐ Multiple clients can connect to the same server on different destination ports.
- ☒ Multiple clients can connect to the same server using same source port number.
- ☐ Multiple clients can connect to the same server using different source port numbers.
- ☐ Multiple clients can connect to the same server on the same destination port.

✗ Which routing metric is used by OSPF protocol?

0/1

- ☐ Delay
- ☒ Bandwidth
- ☐ Jitter
- ☒ Hop count

RIP

✗

✓ Which of the following is link state routing protocol?

1/1

- ☐ RIP
- ☐ EIGRP
- ☐ BGP
- ☒ IS-IS

✓



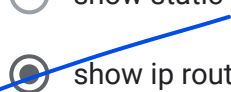
  How can you hide your internal LAN from being reachable by other network 0/1 / routers?

- ☐ Not possible in a connected network
- ☐ Not including it in the network command
- ☐ Making the corresponding interface passive
- ☒ Shutting down the interface




 Which command shows only static routes in Packet Tracer?

1/1

- ☐ show ip route --filter='s'
- ☐ show ip route network
- ☐ show static ip route
-  ☒ show ip route static



  What can not be the size of a IPv4 header?

1/1

- ☒ 80 bytes
- ☐ 20 bytes
- ☐ 60 bytes
- ☐ 40 bytes

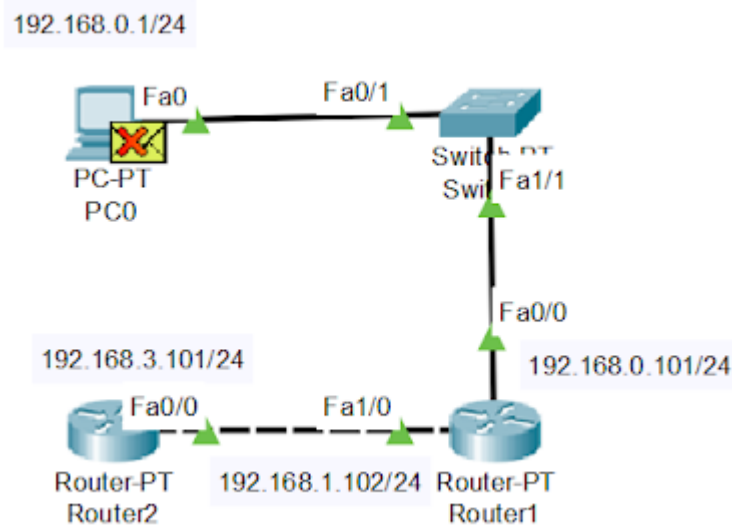


✓ Which of the following is not featured through the NodeContainer topology helper? 1/1

- ☐ Accessing any Node object
- ☐ Managing any Node object
- ☒ Deleting any Node object
- ☐ Creating any Node object



✓ Suppose you have run a simulation of a packet in Packet Tracer. It has two networks. A PC0 is trying to send a packet to a Router2. But the packet is not leaving the PC0. What can be the problem? 1/1



- ☐ Router2 and Router1 are connected by the wrong type of wire
- ☐ Router1 has an incorrect static route
- ☒ Default Gateway is not set up in PC0
- ☐ Router2 has incorrect IP



✓ Which of the following expression is correct for the purpose of allocating IP address in ns3? 1/1

- ☐ address.SetBase ("10.1.1.0");
- ☒ address.SetBase ("10.1.1.0", "255.255.255.0");
- ☐ address.SetBase ("255.255.255.0");
- ☐ address.SetBase ("10.1.1.0, 255.255.255.0");



✓ In ns3, which of the following will enable looking through the list of scheduled events and executing them by the system? 1/1

- ☐ None of the above
- ☐ serverApps.Stop
- ☐ serverApps.Start
- ☒ Simulator::Run



✗ If you have to set up telnet to a router in Packet Tracer, you must set up 0/1

- ☐ None of the options
- ☐ Both line console password and telnet password
- ☐ Only Telnet password
- ☐ Only Line console password



✓ For socket programming in java two methods, getOutputStream and getInputStream, are provided in the _____ class? 1/1

- ☒ Socket
- ☐ Stream
- ☐ InetAddress
- ☐ ServerSocket



✗ Which of the following types of filters is not available in Wireshark 0/1

- ☐ Capture filter
- ☐ TCP Flag filter
- ☐ Display filter
- ☒ None of the above



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