Name:

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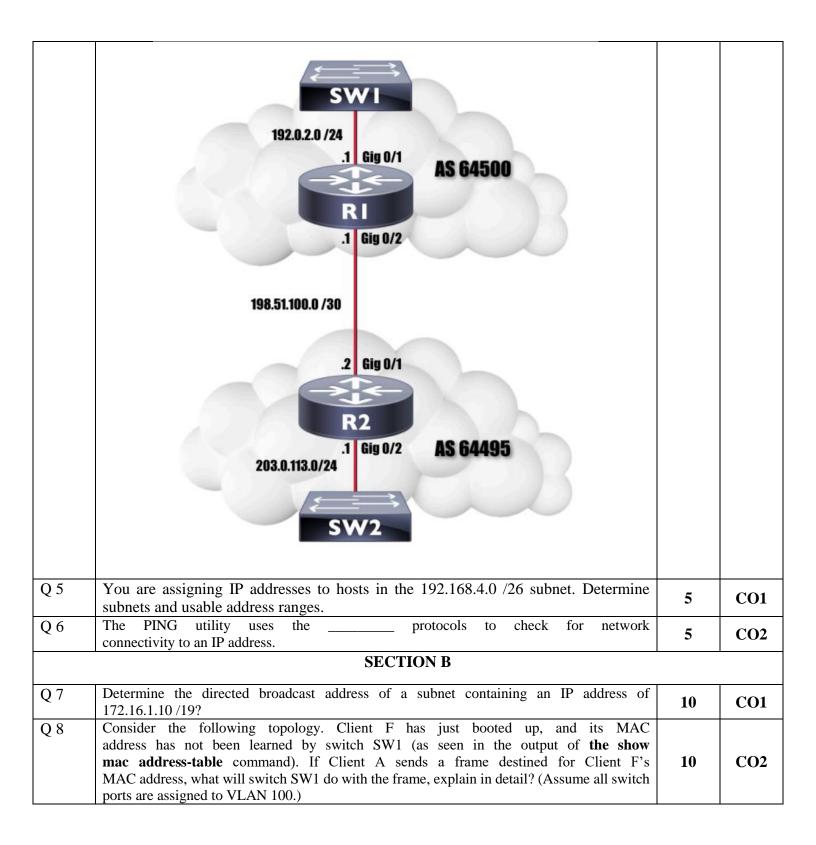
UNIVERSITY WITH A PURPOSE

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES Supplementary Examination, December 2020

Course: R&S Connecting Networks Program: BCA Course Code: CSBC3007 Semester: VI Time 03 hrs. Max. Marks: 100

Instructions: Attempt all questions.

SECTION A S. No. Marks CO **Q** 1 Consider the following port security configuration: Switch(config)# int gig 1/0/1 Switch(config-if)# switchport mode access Switch(config-if)# switchport port-security 5 **CO1** Switch(config-if)# switchport port-security maximum 3 Switch(config-if)# switchport port-security mac-address sticky Switch(config-if)# switchport port-security violation shutdown What does the shutdown option in the bottom command do? Switch resides at what layer of the TCP/IP Model? Q 2 5 **CO1** In the diagram below, Client A is sending a packet to Host 1. As the packet is coming into the Q 3 Fa 0/0 interface on router R2, what is the source IP address in the packet's header? 5 **CO1** 172.16.1.2 /30 Client A 10.1.1.2 /24 192.16.1.2 /24 Q 4 You are configuring eBGP on router R1 seen in the figure. You want to form a BGP neighborship with router R2. Which command would you issue from within 5 **CO2** BGP router configuration mode on router R1?



	Vlan Mac Address Table Vlan Mac Address Type Ports OUTPUT OMITTED 100 0017.9490.9899 DYNAMIC Gi1/0/1 100 0018.f850.ad35 DYNAMIC Gi1/0/1 100 0016.f3c9.3956 DYNAMIC Gi1/0/2			
Q 9	100 0050.5480.5af2 DYNAMIC Gi1/0/3 Explain the three layers of Cisco's traditional hierarchical network design model with the help of diagram.	10	CO1	
Q 10	Your router has more than one routing information source that is telling the router how to reach the 10.10.10.0 /24 network. One source is a statically configured route. Another source is the OSPF routing protocol, and yet another source is the EIGRP routing protocol. Determine which routing information source the router will use?	10	CO2	
Q 11	The default OSPF cost for a 1 Gbps link is 1. Calculate the default cost for a 100 Mbps link.	10	CO2	
	SECTION-C			
Q 1	 Explain the following with the help of diagrams. A DHCP and its configuration B NAT operations and its troubleshooting 	20	СОЗ	