Name:

**Enrolment No:** 



## UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

**End Semester Examination, May 2020** 

Course: R&S Connecting Network
Program: B.C.A
Semester: 6<sup>th</sup>
Time 03 hrs.

Course Code: CSBC 3007 Max. Marks: 100

	SECTION 1		
Q 1	Business policy are playing important role. What factors are most important four business policy for interconnecting two offices using internet.  1- Addressing 2- bandwidth 3- privacy 4- security 5- WAN technology a). 1 & 2 b). 2 & 3 c). 3 & 4 d). 1,2,3 and 4	factors in terms of	2
Q 2	Difference between packet-switched network and circuit-switched network?  a). Circuit switching networks are resource hungry b). Packet switching networks are high latency c). Both d). None		2
Q 3	A company is considering updating the campus WAN connection. Which of examples of the private WAN architecture?  a). leased line b). Ethernet WAN c). Frame Relay d). All	the following are	2
Q 4	Match the following (Write the correct match string for 1 to 5 in order)  1.DWDM  i. Label based packet forwarding  2. ATM  j. microwave  3. ISDN  k. Circuit switching  4. MPLS  1. Asynchronous transfer  5. WiMAX  m. Optical fiber  a). ijlkm  b). mklij		2

	c). mlkij	
	d). ijklm	
Q 5	What is the purpose of the generic routing encapsulation tunneling protocol?  a). to provide packet level encryption of IP traffic between remote sites  b). to manage the transportation of IP multicast and multiprotocol traffic between remote sites  c). to support basic unencrypted IP tunneling using multivendor routers between remote sites  d). to provide fixed flow-control mechanisms with IP tunneling between remote sites	2
Q 6	Pick the wrong statement.  a). PAP - Password Authentication Protocol  b). CHAP - Challenge Handshake Authentication Protocol  c). PAP - Uses encrypted password  d). CHAP - 3-Way Handshake	2
Q 7	Which protocol is <b>NOT</b> supported on Cisco devices for AAA communications.  a). LLDP b). RADIUS c). TACACS d). All above are supported by AAA	2
Q 8	Match the following (Write the correct match string for 1 to 4 in order)  1.pap	2
Q 9	Which of the following is <b>NOT</b> a class LCP frames?  a). Link-discovery frames b). Link-establishment frames c). Link-maintenance frames d). Link-termination frames	2
Q 10	Which of the following is NOT correctly matched?  a). DSL: providing high-speed connections over installed copper wires. b). ADSL: provides higher downstream bandwidth than upload bandwidth. c). SDSL: provides the same capacity in both directions. d). ALL correctly matched.	2
Q 11	Which of the following is NOT correct about PPPoE.  a). creates a PPP tunnel over an Ethernet connection. b). <b>pppoe enable</b> interface configuration command is used to enable physical Ethernet interface. c). PPPoE can as it is used for optical fiber links. d). show pppoe session - displays information about currently active PPPoE sessions.	2
Q 12	Which of the following is NOT a type of VPN a). EMVPN b). Site to Site VPN	2

	c). Remote access VPN d). DMVPN	
Q 13	is a, site-to-site VPN tunneling protocol.  a). remote access, secure b). site-to-site, secure c). remote access, unsecure d). site-to-site, unsecure	2
Q 14	Which of the following is NOT an operating mode of SNORT  a). Sniffer mode, b). Packet Logger mode c). Network Intrusion Detection System (NIDS) d). All the above are operating mode od SNORT	2
Q 15	Match the following  1. switchport mode access 2. switchport port-security 3. switchport port-security Violation 4. switchport port-security maximum value  a).1-c 2-d 3-a 4-b b). 1-c 2-a 3-d 4-b c). 1-d 2-c 3-b 4-a d). 1-a 2-b 3-c 4-d	2
Q 16	Which is the secure way for remote access.  a). SSH b). putty c). Telnet d). email	2
Q 17	Pick the wrong statement about ebgp protocols.  a). BGP is used when an AS has connections to multiple autonomous systems.  b). A misconfiguration of a BGP router could have negative effects throughout the Internet.  c). BGP can be used when there is a limited understanding of BGP  d). BGP configuration command: router bgp as-number	2
Q 18	What will be the correct ACE syntax?  Permit all IP addresses in network 192.168.10.0/24  a). access-list 10 permit 192.168.10.0/24  b). access-list 10 permit 192.168.10.0 255.255.255.0  c). access-list 10 permit 192.168.10.0 0.0.0.255  d). None	
Q 19	What will be the correct ACE syntax?  SMTP traffic from subnet 192.168.11.0 going to subnet 192.168.10.0 is denied, but all other traffic is permitted.  a). access-list 10 deny tcp 192.168.11.0 0.0.0.255 192.168.10.0 0.0.0.255 eq smtp	2

c). access-list 10 deny 192.168.11.0 0.0.0.255 192.168.10.0 0.0.0.255 eq smtp d). access-list 10 deny tcp 192.168.11.0 255.0.0.0 192.168.10.0 255.255.255.0 eq smtp  Q 20 Calculate the wildcard mask corresponding to the subnet mask /27 a).0.0.0.255 b).0.0.0.27 c).0.0.0.32 d). 0.0.0.31  Q 21 Which of the following is INCORRECTLY defined? a). CPE: Consists of devices and inside wiring located on the enterprise edge connecting to a carrier b). DCE: Also called circuit-terminating equipment, the DCE consists of devices that put data on the local loop. The DCE primarily provides an interface to connect subscribers to a communication link on the WAN cloud c). DTE: The customer devices that pass the data from a customer network or host computer for transmission over the WAN. The DTE connects to the local loop through the DCE d). WAN: wireless area network connects devices through wireless network. It used Wifi and Bluetooth for communication.  Q 22 Pick the Incorrect Match a). Fog computing – Edge computing b). Cloud computing – Virtualization
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Le) access list 10 deny 102 168 11 0 0 0 0 255 102 168 10 0 0 0 0 255 ag emts
5). 400000 not 10 permit top 1/2.100.11.0 0.0.0.200 1/2.100.10.0 0.0.0.200 eq sintp
b). access-list 10 permit tcp 192.168.11.0 0.0.0.255 192.168.10.0 0.0.0.255 eq smtp

	1.traffic policing	A. This determines the class of traffic to which frames belong.	
	2.marking	B. Excess traffic is dropped when the traffic rate reaches a preconfigured maximum.	
	3.traffic shaping	C.A value is added to a packet header	
	4.classification	D. Excess traffic is retained in a queue and scheduled for later transmission over increments of time	
	a).1-A 2-B 3-C 4-I b).1-D 2-C 3-B 4-A c).1-D 2-C 3-A 4-I d). 1-B 2-C 3-D 4-I	A 3	
Q 27	,	wing are useful in trouble shooting network? am nentation	2
Q 28	Which of the followa). IP SLAs use devices, multiple nb). A protocol analan easy to use form c). Syslog is a sim	wing statement is wrong? generated traffic to measure network performance between two networking etwork locations, or across multiple network paths. yzer decodes the various protocol layers in a recorded frame and presents it in nat. ple protocol used by an IP device known as a syslog client to send text-based other IP device known as the syslog server.	2
Q 29	Which of the followa). CDP stands for b). CDP can autom	wing is NOT true about the CDP protocol? cisco discovery protocol attically discover other CDP-enabled devices enable interface configuration command to globally disabled the CDP.	2
Q 30	VLAN attacks can a). Disabling DTP b). Enabling port so c). Disable Unused d). All	be prevented by ecurity l port	2
		SECTION-2	
Q 31	plane and the data pas the controller. SI SDN are of three ty The network progranetwork which can Follow the above pa). What benefits can	Network (SDN) is a new networking paradigm which decouples the control plane of the router and put the control logic is kept at a centralized server known DN supports 3-layer architecture with application, control and forwarding layer. The special server with application, control and forwarding layer. The special server with application, control and forwarding layer. The special server with application, control and forwarding layer. The special server with application, control and forwarding layer. The special server with application, control and forwarding layer. The special server with application, control and forwarding layer. The special server with application, control and forwarding layer. The special server with application, control and forwarding layer. The special server with application, control and forwarding layer. The special server with application, control and forwarding layer. The special server with application, control and forwarding layer. The special server with application, control and forwarding layer. The special server with application, control and forwarding layer. The special server with application, control and forwarding layer. The special server with application, control and forwarding layer. The special server with application, control and forwarding layer. The special server with application, control and forwarding layer. The special server with application, control and forwarding layer. The special server with application with application and server with a server with application and server with a s	10 [2.5* 4]

	c). Describe the 3-layer architecture of Software defined network.	
	d). Describe in brief the cisco APIC architecture.	
	e). Differentiate SDN and NFV.	
Q 32	As a network administrator you have secure your intranet from the intruder. The LAN suffers different types of vulnerabilities. Discuss such vulnerabilities in the LAN. What type of attack that are possible on the LAN using these vulnerabilities? Discuss the solution present to mitigate these attacks.	10
Q 33	How queuing helps in prioritizing the traffic to maintain QoS. Discuss Weighted Fair Queuing (WFQ) and Class-Based Weighted Fair Queuing (WFQ) in detail.  Differentiate between jitter and delay. How playout delay buffer helps to mitigate the problem of jitter.	10 [1+6 +3]
Q 34	a). NAT to provide the internet access when the host is using private IP.	10[5
	b). What are 3 cardinal rules of ACL. Discuss the steps to troubleshoot the access list configuration.	+5]
OR	Write short notes on the following	
	1.IPS/IDS	10
	2.LCP/NCP	[2.5*
	3.PAP/CHAP	4]
	4. SNORT	