

Program: BE(Information Technology)

Curriculum Scheme: CBCGS

Examination: Final Year Semester VII December 2020

Course Code: ITC305

Course Name: END

Time: 2 hour

Max. Marks: 80

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Q1	MCQs	2 Marks each
1.	You want to ping a router on your network from interface Serial 0/0 and not the path in the routing table. How can you achieve this?	
Option A:	This cannot be done; packets cannot disregard the routing table.	
Option B:	Enter extended ping, and specify the exit interface.	
Option C:	Enter the interface in configuration mode, and ping the remote router.	
Option D:	Configure a temporary route for the router exiting the interface.	
2.	Which command on Windows will allow you to verify the path a packet gets routed through on the network?	
Option A:	tracert 198.78.34.2	
Option B:	ping 198.78.34.2	
Option C:	tracert 198.78.34.2	
Option D:	route print	
3.	Which command on Windows will allow you to verify your IP address, subnet mask, default gateway, and MAC address?	
Option A:	Ip	
Option B:	Ipconfig /all	
Option C:	Ipstatus	
Option D:	Hostname all	
4.	The process of HTTP asking TCP to send some data and making sure that it is received correctly is an example of what?	
Option A:	Same-layer interaction	
Option B:	Adjacent-layer interaction	
Option C:	OSI model	
Option D:	All of these answers are correct.	
5.	Which OSI layer defines the functions of logical network-wide addressing and routing?	
Option A:	Layer 1	
Option B:	Layer 2	
Option C:	Layer 3	
Option D:	Layer 4	
6.	Which OSI layer defines the standards for cabling and connectors?	

Option A:	Layer 1
Option B:	Layer 2
Option C:	Layer 3
Option D:	Layer 4
7.	Which of the following is true about Ethernet crossover cables for Fast Ethernet?
Option A:	Pins 1 and 2 are reversed on the other end of the cable.
Option B:	Pins 1 and 2 on one end of the cable connect to pins 3 and 6 on the other end of the cable.
Option C:	Pins 1 and 2 on one end of the cable connect to pins 3 and 4 on the other end of the cable
Option D:	None of the other answers is correct.
8.	In the cabling for a leased line, which of the following typically connects to a four-wire line provided by a telco?
Option A:	Router serial interface without internal CSU/DSU
Option B:	CSU/DSU
Option C:	Router serial interface with internal transceiver
Option D:	Switch serial interface
9.	Which of the following is a valid Class C IP address that can be assigned to a host?
Option A:	1.1.1.1
Option B:	200.1.1.1
Option C:	128.128.128.128
Option D:	224.1.1.1
10.	In which of the following modes of the CLI could you type the command reload and expect the switch to reboot?
Option A:	User mode
Option B:	Enable mode
Option C:	Global configuration mode
Option D:	Interface configuration mode
11.	What type of switch memory is used to store the configuration used by the switch when it is up and working?
Option A:	RAM
Option B:	ROM
Option C:	Flash
Option D:	NVRAM
12.	In a LAN, which of the following terms best equates to the term VLAN?
Option A:	Collision domain
Option B:	Broadcast domain
Option C:	Subnet
Option D:	Single switch

13.	Which of the following devices would be in the same collision domain as PC1?
Option A:	PC2, which is separated from PC1 by an Ethernet hub
Option B:	PC3, which is separated from PC1 by a transparent bridge
Option C:	PC4, which is separated from PC1 by an Ethernet switch
Option D:	PC5, which is separated from PC1 by a router
14.	On a Cisco Catalyst switch, you issue a show mac address-table command. Which of the following answers list information you would likely see in most lines of output? (Choose two answers.)
Option A:	A MAC address
Option B:	An IP address
Option C:	A VLAN ID
Option D:	Type (broadcast, multicast, or unicast)
15.	Which of the following commands might you see associated with the router CLI, but not with the switch CLI?
Option A:	The clock rate command
Option B:	The ip address address mask command
Option C:	The ip address dhcp command
Option D:	The interface vlan 1 command
16.	Which of the following commands correctly configures a static route?
Option A:	ip route 10.1.3.0 255.255.255.0 10.1.130.253
Option B:	ip route 10.1.3.0 serial 0
Option C:	ip route 10.1.3.0 /24 10.1.130.253
Option D:	ip route 10.1.3.0 /24 serial 0
17.	Which of the following are valid subnet IDs for network 192.168.9.0 using mask /29, assuming that mask /29 is used throughout the network?
Option A:	192.168.9.144
Option B:	192.168.9.242
Option C:	192.168.9.58
Option D:	192.168.9.9
18.	Which of the following statements best describes what a switch does with a frame destined for an unknown unicast address?
Option A:	It forwards out all interfaces in the same VLAN except for the incoming interface.
Option B:	It forwards the frame out the one interface identified by the matching entry in the MAC address table.
Option C:	It compares the destination IP address to the destination MAC address.
Option D:	It compares the frame's incoming interface to the source MAC entry in the MAC address table.
19.	Which of the following is required when configuring port security with sticky learning?
Option A:	Setting the maximum number of allowed MAC addresses on the interface with the switchport port-security maximum interface subcommand.
Option B:	Enabling port security with the switchport port-security interface subcommand.
Option C:	Defining the specific allowed MAC addresses using the switchport port-security mac-address interface subcommand.

Option D:	All the other answers list required commands.
20.	Which of the following commands do not list the IP address and mask of at least one interface? (Choose two answers.)
Option A:	show running-config
Option B:	show interfaces
Option C:	show version
Option D:	show ip interface brief

Q2	Explain any 4 out of 6	(5 marks each)
A	Cisco SONA framework	
B	Hierarchical internetworking model	
C	Enterprise internet edge design	
D	Cisco enterprise core layer	
E	Campus LAN switching	
F	Cisco datacenter network design	

Q3	Write a short note on any 4 out of 6	(5 marks each)
A	WAN network	
B	Explain IPv6 subnetting	
C	Enterprise security	
D	PPDIOO Lifecycle	
E	Software defined network	
F	Network monitoring	