

Keys for written test for the Post of Network Engineer in SOVTECH held on 29.12.2021

Sl. No.	Question Text	Answer Choice 1	Answer Choice 2	Answer Choice 3 (optional)	Answer Choice 4 (optional)	Correct answer
1.	Two broad categories of congestion control are	Active control and Passive control	Open-loop and Closed-loop	Active loop and Passive loop	Open-control and Closed-control	Choice 2
2.	Which of the following field in IPv4 datagram is not related to fragmentation?	Flags	Offset	TOS	Identifier	Choice 3
3.	The data field cannot carry which of the following?	TCP segment	UDP segment	ICMP messages	SMTP messages	Choice 3
4.	Discarding policy is mainly done by _____	Sender	Receiver	Router	Switch	Choice 3
5.	A packet is destined for 10.10.1.22. Which static route does the router choose to forward the packet?	ip route 10.10.1.0 255.255.255.240 10.10.255.1	ip route 10.10.1.16 255.255.255.252 10.10.255.1	ip route 10.10.1.20 255.255.255.252 10.10.255.1	ip route 10.10.1.20 255.255.255.254 10.10.255.1	Choice 3
6.	The packet sent by a node to the source to inform it of congestion is called _____	Explicit	Discard	Backpressure	Choke	Choice 4
7.	Which subnet summarizes and gives the most efficient distribution of IP addresses for the router configuration?	192.168.0.0/26 as summary and 192.168.0.0/29 for each floor	192.168.0.0/24 as summary and 192.168.0.0/28 for each floor	192.168.0.0/25 as summary and 192.168.0.0/27 for each floor	192.168.0.0/23 as summary and 192.168.0.0/25 for each floor	Choice 3
8.	Which type of topology is best suited for large businesses which must carefully control and coordinate the operation of distributed branch outlets?	Ring	Local area	Hierarchical	Star	Choice 4
9.	A network technician receives a call from a user who is experiencing network connectivity issues. The network technician questions the user and learns the user brought in a personal wired router to use multiple computers and connect to the network. Which of the following has the user MOST likely introduced to the network?	Rogue DHCP server	Evil twin	VLAN mismatch	Honeytrap	Choice 1
10.	What is the default behaviour of a Layer 2 switch when a frame with an unknown destination MAC address is received?	The Layer 2 switch drops the received frame	The Layer 2 switch floods packets to all ports except the receiving port in the given VLAN	The Layer 2 switch sends a copy of a packet to CPU for destination MAC address learning	The Layer 2 switch forwards the packet and adds the destination MAC address to its MAC address table	Choice 2
11.	Which function does the range of private IPv4 addresses perform?	allows multiple companies to each use the same addresses without conflicts	ensures that NAT is not required to reach the internet with private range addressing	provides a direct connection for hosts from outside of the enterprise network	enables secure communications to the internet for all external hosts	Choice 1
12.	An organization has decided to start using cloud-provided services. Which cloud service allows the organization to install its own operating system on a virtual machine?	platform-as-a-service	software-as-a-service	network-as-a-service	infrastructure-as-a-service	Choice 4
13.	When a floating static route is configured, which action ensures that the backup route is used when the primary route fails?	The floating static route must have a higher administrative distance than the primary route so it is used as a backup	The administrative distance must be higher on the primary route so that the backup route becomes secondary	The floating static route must have a lower administrative distance than the primary route so it is used as a backup	The default-information originate command must be configured for the route to be installed into the routing table	Choice 1

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14.	EIGRP metric is _____	K-Values	Bandwidth only	Hop count	Delay only	Choice 1
15.	Frequency of failure and network recovery time after a failure are measures of the _____ of a network.	Performance	Reliability	Security	Feasibility	Choice 2
16.	You have an IP host address of 201.222.5.121 and a subnet mask of 255.255.255.248. What is the broadcast address?	201.222.5.127	201.222.5.120	201.222.5.121	201.222.5.122	Choice 1
17.	Which of the following best describes uploading information?	Sorting data on a disk drive	Sending information to a host computer	Receiving information from a host computer	Sorting data on a hard drive	Choice 2
18.	Which constructor of Datagram Socket class is used to create a datagram socket and binds it with the given Port Number?	Datagram Socket(int port)	Datagram Socket(int port, Int Address address)	Datagram Socket(int address)	Datagram Socket()	Choice 2
19.	Which one of the following would breach the integrity of a system?	Looking the room to prevent theft	Full access rights for all users	Fitting the system with an anti-theft device	Protecting the device against willful or accidental damage	Choice 2
20.	At what speed does tele-computed refer?	Interface speed	Cycle per second	Baud rate	Megabyte	Choice 3
21.	A network administrator has been given a network of 172.16.85.0/21 and wants to know the usable range of IP addresses on that subnet. Which of the following indicates the correct IP address range?	172.16.80.0-172.16.85.254	172.16.80.0-172.16.88.255	172.16.80.1-172.16.87.254	172.16.80.1-172.16.85.255	Choice 3
22.	A user configured OSPF and advertised the Gigabit Ethernet interface in OSPF by default, which type of OSPF network does this interface belong to?	point-to-multipoint	point-to-point	broadcast	no broadcast	Choice 3
23.	The address that is unique in the scope of the network or internationally if the network is part of an international network is called as _____	Global address	Physical Address	Network Address	IP Address	Choice 1
24.	A network administrator wants to employ a username and password authentication system for guest WiFi. Which of the following is the BEST option to provide this type of authentication?	port security	MAC filtering	Network access control	Captive portal	Choice 4
25.	In Inet Address class, which method returns the host name of the IP Address?	Public String get Hostname()	Public String getHostAddress()	Public static InetAddress get Localhost()	Public getByName()	Choice 1
26.	An engineer configured an OSPF neighbour as a designated router. Which state verifies the designated router is in the proper mode?	Exchange	Full	2-way	Init	Choice 2
27.	Which NetWare protocol works on layer 3--network layer—of the OSI model?	IPX	NCP	SPX	NetBIOS	Choice 1
28.	What is the primary effect of the spanning-tree port fast command?	It enables BPDU messages	It minimizes spanning-tree convergence time	It immediately puts the port into the forwarding state when the switch is reloaded	It immediately enables the port in the listening state	Choice 2
29.	Which 802.11 frame type is association response?	Management	Protected Frame	Action	Control	Choice 1
30.	IPv6 does not use _____ type of address	Broadcast	Multicast	Unicast	Anycast	Choice 1