

Society for Promotion of Vocational & Technical Education [SOVTECH]

Recruitment for the Post of Network Engineer

Date of Examination: 29/08/2024

Exam Time: 09:30 AM - 10:00 AM

Exam Slot: A1

ANSWER KEY

#	Question	Answer Key	Remarks
1	Besides the transmitter, the optical fiber, and the receiver, which of the following components may be found in a fiber optic link? A. Splices, couplers, and connectors B. Splices only C. Connectors only D. Couplers only	A	
2	Difference between T568A and T568B is A. Difference in wire color B. Difference in number of wires C. Just different length of wires D. Just different manufacturer standards	D	
3	DNS can obtain the..... of host if its domain name is known and vice versa. A. Station address B. IP address C. Port address D. Checksum	B	
4	The fiber NA relates to which of the following characteristics? A. Speed of light within the fiber B. Maximum angle within the fiber acceptance cone C. Tensile strength of the fiber D. The physical size of the fiber	B	
5	Which of the following statement is true? i) An address with all bits 1 is interpreted as all networks or all hosts. ii) The class A network 128.0.0.0 is defined as the loop back network. A. i only B. ii only C. Both A and B D. None of the above	A	
6	What is the address size of IPv6 ? A. 32 bit B. 64 bit C. 128 bit D. 256 bit	C	
7	_____ implies that all subnets obtained from the same network use the subnet mask. A. Static subnetting B. Dynamic Subnetting C. Variable length subnetting D. Both B and C	A	

8	<p>_____ are used for connecting Hosts in Wide Area Network (WAN) to each other.</p> <p>A. Hubs B. Repeaters C. Nodes D. Subnets</p>	D	
9	<p>_____ WAN technology requires more bandwidth for transferring voice, video and data.</p> <p>A. PAP (Password Authentication Protocol) B. Frame Relay C. SONET (Synchronous Optical Networking) D. ATM (Asynchronous Transfer Mode)</p>	D	
10	<p>_____ is a high performance fiber optic token ring LAN running at 100 Mbps over distances upto 1000 stations connected.</p> <p>A. FDDI B. FDDT C. FDDR D. FOTR</p>	A	
11	<p>Tertiary Tier of SWAN architecture consists of</p> <p>A. State/UT Headquarters B. District Headquarters C. Block Headquarters D. District Headquarters & Block Headquarters</p>	C	
12	<p>SWAN is implemented based on</p> <p>A. Two-tier architecture B. Three-tier architecture C. Four-tier architecture D. Single-tier architecture</p>	B	
13	<p>What does X.25 use as its DTE device?</p> <p>A. Telco incoming router B. Packet switcher C. Analog modem D. PAD (Packet Assembler/Disassembler)</p>	D	
14	<p>Extremely high losses occurred in early fibers because of which of the following conditions?</p> <p>A. Holes in the fiber sides B. Core areas too small in the fibers C. Cracks in the fibers D. Impurities in the fiber material</p>	D	
15	<p>A proxy server is used for which of the following?</p> <p>A. To provide TCP/IP B. To process client requests for database access C. To process client requests for web pages D. To provide security against unauthorized users</p>	C	

16	<p>Assume that Source S and Destination D are connected through an intermediate router R. How many times a packet has to visit the network layer and data link layer during a transmission from S to D?</p> <p>A. Network layer – 4 times, Data link layer – 4 times B. Network layer – 4 times, Data link layer – 6 times C. Network layer – 2 times, Data link layer – 4 times D. Network layer – 3 times, Data link layer – 4 times</p>	D	
17	<p>What part of the network is the point where the responsibility of the administrator ends and the telecommunications provider's responsibility begins?</p> <p>A. Last mile B. Demarc C. Router array D. PAD (Packet Assembler/Disassembler) interface</p>	B	
18	<p>On which principal does the Optical fiber work?</p> <p>A. Scattering of light B. Total internal absorption C. Total internal reflection D. Optical rotation</p>	C	
19	<p>Which of the following describes the capability for a VPN terminating interface to simultaneously send IPsec protected traffic and regular unprotected traffic?</p> <p>A. Split tunneling B. Load Balancing C. Firewalling D. Dual; Stack tunneling</p>	A	
20	<p>An Ethernet frame that is less than the IEEE 802.3 minimum length of 64 octets is called</p> <p>A. Short Frame B. Small Frame C. Mini Frame D. Runt Frame</p>	D	
21	<p>What is the second name of the proxy server?</p> <p>A. Proxy tools B. Application proxy C. Application-level gateway D. All the of above</p>	C	
22	<p>Which of the following is not a mechanism that DHCP supports for IP address allocation?</p> <p>A. Automatic allocation B. Static allocation C. Dynamic allocation D. Manual allocation</p>	B	
23	<p>What is the primary disadvantage of X.25?</p> <p>A. Digital circuit B. Small data payloads C. Circuit switching D. Slow speeds</p>	D	

24	<p>SWAN architecture is divided into _____ components.</p> <p>A. 2 B. 3 C. 4 D. 5</p>	A	
25	<p>What technology can you use temporarily to connect networks from two different companies?</p> <p>A. VPN B. HTTP C. DHCP D. Passive router</p>	A	
26	<p>Which of the following processes is used in IPSEC to negotiate symmetric keys securely between endpoints over an unsecured intermediate media?</p> <p>A. Diffie-Hellman Key Exchange B. Advanced Encryption Standard C. Secure Hashing Algorithm D. None of the above</p>	A	
27	<p>The end result of Phase 1 of ISAKMP is an interim secure channel over which Phase II of ISAKMP is performed. What does Phase II do?</p> <p>A. Negotiate ISAKMP SAs B. Negotiate IPSEC SAs C. Perform peer authentication D. Perform initial Diffie-Hellman Key Exchange</p>	B	
28	<p>ADSL is the abbreviation of</p> <p>A. Asymmetric Dual Subscriber Line B. Asymmetric Digital System Line C. Asymmetric Dual System Line D. Asymmetric Digital Subscriber Line</p>	D	
29	<p>Which of the following is a proprietary extension to IPSEC that is not defined in the RFC specifications for IPSEC?</p> <p>A. Peer Authentication using digital certificates during phase 1 of ISAKMP B. Per User Authentication when connecting from VPN client to VPN connector C. AES encryption for confidentiality D. An IPSEC tunnel operating in transport mode</p>	B	
30	<p>SWAN plays larger role in processing</p> <p>A. G2B transactions electronically B. B2B transactions electronically C. B2G transactions electronically D. C2G transactions electronically</p>	A	

Signature of Controller of Examination