

# Society for Promotion of Vocational & Technical Education [SOVTECH]

## Recruitment for the Post of Network Engineer

Date of Examination: 04/01/2025

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

Exam Slot: A1

### ANSWER KEY

#	Question	Answer Key	Remarks
1	<p><b>The loss of optical power as light travels along a fiber is called</b></p> <p>A. Dispersion B. Scattering C. Attenuation D. Absorption</p>	<b>C</b>	
2	<p><b>Which of the following substances is a good example of a transparent substance?</b></p> <p>A. Frosted glass B. Clear glass C. Aluminum foil D. Cardboard</p>	<b>B</b>	
3	<p><b>Under Data Encryption Policy</b></p> <p>A. Pre-shared secret key should be of minimum 8 characters B. Pre-shared secret key should be of minimum 16 characters C. Pre-shared secret key should be of minimum 32 characters D. Pre-shared secret key should be of minimum 64 characters</p>	<b>B</b>	
4	<p><b>What is the end result of Phase II of ISAKMP?</b></p> <p>A. The IPSEC tunnel is established B. Phase III of ISAKMP commences C. The IPSEC tunnel is torn down and renegotiated D. An interim secure channel is established</p>	<b>A</b>	
5	<p><b>An asynchronous connection uses _____ encapsulation.</b></p> <p>A. DSL B. PPP C. Frame Relay D. Ethernet</p>	<b>B</b>	
6	<p><b>What does Firewall Do?</b></p> <p>A. Prevent Hackers B. Install Viruses C. Blocks all content D. Give access to SD Cards</p>	<b>A</b>	
7	<p><b>Which of the following is not a characteristic of a VPN?</b></p> <p>A. It is a secure network B. It is deployed over a shared infrastructure C. It may use tunneling techniques D. It does not provide any cost savings to alternate connectivity options</p>	<b>D</b>	
8	<p><b>What is the minimum header size of an IP packet?</b></p> <p>A. 16 bytes B. 10 bytes C. 20 bytes D. 32 bytes</p>	<b>C</b>	

9	<p><b>Which of the following may be used as a terminating point for a site to site VPN tunnel?</b></p> <p>A. Router B. Firewall C. Concentrator D. All the above</p>	D	
10	<p><b>When you have multiple circuits connected to a site, the entire circuit is known as a _____.</b></p> <p>A. Virtual circuit B. Emulated circuit C. Joined circuit D. Multitasked circuit</p>	A	
11	<p><b>IDS stands for</b></p> <p>A. Intrusion Detection System B. Intruder Device System C. Integrity Detection System D. Integrity Device System</p>	A	
12	<p><b>What are the three parts of a fiber optic data link?</b></p> <p>A. Optical fiber, optical connectors, optical splices B. Transmitter, optical fiber, optical connectors C. Optical fiber, optical connectors, receiver D. Transmitter, optical fiber, receiver</p>	D	
13	<p><b>DHCP is the abbreviation of</b></p> <p>A. Dynamic Host Control Protocol B. Dynamic Host Configuration Protocol C. Dynamic Hyper Control Protocol D. Dynamic Hyper Configuration Protocol</p>	B	
14	<p><b>Which of the following security techniques provide confidentiality (data privacy) service?</b></p> <p>A. Key exchange B. Encryption C. Hashing D. All of the above</p>	B	
15	<p><b>What is the meaning of Bandwidth in Network?</b></p> <p>A. Transmission capacity of a communication channels B. Connected Computers in the Network C. Class of IP used in Network D. None of Above</p>	A	
16	<p><b>A packet filtering firewall can</b></p> <p>A. deny certain users from accessing a service B. block worms and viruses from entering the network C. disallow some files from being accessed through FTP D. block some hosts from accessing the network</p>	D	
17	<p><b>Compared to single-mode fibers, multimode fibers have which of the following advantages?</b></p> <p>A. Ease of launching light into them only B. Ease of both making connections and launching light into them C. Ease of making connections only D. Lower dispersion</p>	B	

18	<p><b>Which of the following services is not provided by an IPSEC tunnel?</b></p> <p>A. Data Confidentiality  B. Origin Authentication  C. Data Integrity  D. Protection from Spyware</p>	D	
19	<p><b>Hashing functions like MD5 and SHA are used in IPSEC to provide which of the following services:</b></p> <p>A. Data confidentiality (privacy from eavesdropping)  B. Data integrity (data protected from being changed during transmit)  C. Securely negotiating a key over a unsecure media  D. Anti reply protection</p>	B	
20	<p><b>What are the two basic types of fibers?</b></p> <p>A. Small and large  B. Opaque and diffuse  C. Glass and plastic  D. Single-mode and multimode</p>	D	
21	<p><b>X.25 and Frame Relay are examples of what type of WAN technology?</b></p> <p>A. Circuit Switching  B. Connection Switching  C. Packet Switching  D. Network Switching</p>	C	
22	<p><b>What is the use of Bridge in Network?</b></p> <p>A. to connect LANs  B. to separate LANs  C. to control Network Speed  D. All of the above</p>	A	
23	<p><b>Which of the following is not a Layer 2 tunnelling protocol?</b></p> <p>A. PPTP  B. IPSEC  C. L2TP  D. L2F</p>	B	
24	<p><b>Which of the following is correct in CIDR?</b></p> <p>A. Class A includes Class B network  B. There are only two networks  C. There are high &amp; low class network  D. There is no concept of class A, B, C networks</p>	D	
25	<p><b>MAC Address is the example of</b></p> <p>A. Transport Layer  B. Data Link Layer  C. Application Layer  D. Physical Layer</p>	B	

26	<p><b>Match the following IEEE No to their corresponding Name for IEEE 802 standards for LANs.</b></p> <p>i)802.3                    a) WiFi  ii)802.11                  b) WiMax  iii) 802.15.1              c) Ethernet  iv)802.16                  d) Bluetooth</p> <p>A.i-b, ii-c, iii-d, iv-a  B.i-c, ii-d, iii-a, iv-b  C.i-c, ii-a, iii-d, iv-b  D.i-b, ii-d, iii-c, iv-a</p>	C	
27	<p><b>What topology does FDDI use?</b></p> <p>A. Bus  B. Star  C. Ring  D.Mesh</p>	C	
28	<p><b>What is the uses of subnetting?</b></p> <p>A. It divides one large network into several smaller ones  B. It divides network into network classes  C. It speeds up the speed of network  D. None of above</p>	A	
29	<p><b>Fiber optics are being used in which of the following types of applications?</b></p> <p>A. Long-haul communications  B. Subscriber-loop applications  C. Military applications  D.All of the above</p>	D	
30	<p><b>What types of protocols are used in VPNs?</b></p> <p>A.Application level protocols  B. Tunneling protocols  C. Network protocols  D.Mailing protocols</p>	B	