P.D.E.A's

Prof Ramkrishna More Arts, Commerce and Science College, Akurdi Pune-44

Introduction to Cyber Security Practice MCQ Questions with Solutions

Module 1:Pre-requisites in Information and Network Security Chapter-1: Overview of Networking Concepts

1	Physical	or logical	arrangement	of network is
1.	1 Hysicai	or logicar	arrangement	of lictwork is

- a) Topology
- b) Routing
- c) Networking
- d) None of the mentioned

Answer: a

- 2. In this topology there is a central controller or hub
 - a) Star
 - b) Mesh
 - c) Ring
 - d) Bus

Answer: a

- 3. This topology requires multipoint connection
 - a) Star
 - b) Mesh
 - c) Ring
 - d) Bus

Answer: d

- 4. Data communication system spanning states, countries, or the whole world is
 - a) LAN
 - b) WAN
 - c) MAN
 - d) None of the mentioned

Answer: b

- 5. Data communication system within a building or campus is
 - a) LAN
 - b) WAN
 - c) MAN
 - d) None of the mentioned

Answer: a

- 6. Expand WAN
 - a) World area network
 - b) Wide area network
 - c) Web area network
 - d) None of the mentioned

Answer: b

- 7. What is the access point (AP) in wireless LAN?
 - a) device that allows wireless devices to connect to a wired network
 - b) wireless devices itself
 - c) both (a) and (b)
 - d) none of the mentioned

Answer:a

- 8. In wireless ad-hoc network
 - a) access point is not required
 - b) access point is must
 - c) nodes are not required
 - d) none of the mentioned

Answer:a

- 9. Which multiple access technique is used by IEEE 802.11 standard for wireless LAN?
 - a) CDMA
 - b) CSMA/CA
 - c) ALOHA
 - d) none of the mentioned

Answer: b

- 10. In wireless distribution system
 - a) multiple access point are inter-connected with each other
 - b) there is no access point
 - c) only one access point exists
 - d) none of the mentioned

Answer:a

- 11. A wireless network interface controller can work in
 - a) Infrastructure mode
 - b) ad-hoc mode
 - c) both (a) and (b)
 - d) none of the mentioned

Answer:c

- 12. In wireless network an extended service set is a set of
 - a) Connected basic service sets
 - b) all stations
 - c) all access points
 - d) none of the mentioned

Answer:a

- 13. Mostly ______ is used in wireless LAN.
 - a) time division multiplexing
 - b) orthogonal frequency division multiplexing
 - c) space division multiplexing
 - d) none of the mentioned

Answer:b

- 14. Which one of the following event is not possible in wireless LAN.
 - a) Collision detection
 - b) Acknowledgement of data frames
 - c) multi-mode data transmission
 - d) none of the mentioned

Answer:a

- 15. What is Wired Equivalent Privacy (WEP)?
 - a) security algorithm for ethernet
 - b) security algorithm for wireless networks
 - c) security algorithm for usb communication
 - d) none of the mentioned

Answer:b

- 16. What is WPA?
 - a) wi-fi protected access
 - b) wired protected access
 - c) wired process access
 - d) wi-fi process access

Answer:a

Chapter-2:Information Security Concepts

known as	ad or copied by someone not authorized to do so, the result is				
	b) loss of integrity				
•	d) All of the above				
Answer is: - a					
18. When information is mo	When information is modified in unexpected ways, the result is known as				
a) loss of confidentiality	b) loss of integrity				
c) loss of availability	d) All of the above				
Answer is: - b					
19. When information can b	When information can be erased or become inaccessible, the result is known as				
a)loss of confidentiality	b) loss of integrity				
	d) None of the above				
Answer is: - c					
20. When users cannot accee experience a	ess the network or specific services provided on the network, they				
a) Availability	b) Denial of service				
c) diagnostic problem	d) All of the above				
Answer is: - b					
21 is proving	is proving that a user is the person he or she claims to be.				
a)Authentication	b) Authorization				
c) non-repudiation	d) None of the above				
Answer is: - a					
	act of determining whether a particular user (or computer system)				
	t a certain activity, such as reading a file or running a program.				
a)Authentication	b) Authorization				
c) non-repudiation	d) All of the above				
Answer is: - b					
23. When the means of auth	nentication cannot later be refuted—the user cannot later deny tha				
•	activity is known				
a)Authentication	b) Authorization				
c) non-repudiation	d) None of the above				
Answer is: - c					

24. A	4. A attack attempts to learn or make use of information from the system but doe				
no	ot affect system resources.				
a)	active	b) passive			
c)	None of the above	d) All of the above			
	Answer is: - b				
25. A	attack attempts m	odification of the data stream or the creation of a false			
st	ream.				
a)	active	b) passive			
c) None of the above		d) All of the above			
	Answer is: - a				
26	is the application	n of computer investigation and analysis techniques in the			
in	terests of determining poter	ntial legal evidence.			
a)	E-commerce	c) Computer Forensics			
b)	None of the above	d) All of the above			
	Answer is: -c				

Chapter-3:Security Threats and Vulnerabilities

- 27. What is the correct approach for addressing security and organization objectives?
 - a. Security and organization objectives should be developed separately.
 - b. Security should drive organization objectives.
 - c. Security should support organization objectives.
 - d. The site security officer should approve or reject organization objectives.

Answer is:-c

- 28. A qualitative risk assessment is used to identify:
 - a. Vulnerabilities, threats, and countermeasures
 - b. Vulnerabilities, threats, threat probabilities, and countermeasures
 - c. Assets, risks, and mitigation plans
 - d. Vulnerabilities and countermeasures

Answer is:-b

- 29. The impact of a specific threat is defined as:
 - a. The cost of recovering the asset
 - b. The cost required to protect the related asset
 - c. The effect of the threat if it is realized
 - d. The loss of revenue if it is realized

Answer is:-c

- 30. The statement, "Information systems should be configured to requirestrong passwords," is an example of a/an:
 - a. Security requirement
 - b. Security policy
 - c. Security objective
 - d. Security control

Answer is:-b

- 31. An organization employs hundreds of office workers that use computers to perform their tasks. What is the best plan for informing employees about security issues?
 - a. Include security policy in the employee handbook
 - **b.** Perform security awareness training at the time of hire and annually thereafter
- c.Perform security awareness training at the time of hire
 - d. Require employees to sign the corporate security policy

Answer is:-b

- 32. An information system that processes sensitive information is configured to require a valid userid and strong password from any user. This process of accepting and validating this information is known as:
 - a. Authentication
 - b. Strong authentication
 - c. Two-factor authentication
 - d. Single sign-on

Answer is:-a

- 33. Palm scan, fingerprint scan, and iris scan are forms of:
 - a. Strong authentication
 - b. Two-factor authentication
 - c. Biometric authentication
 - d. Single sign-on

Answer is:-c

Chapter-4:Cryptography / Encryption

- 34. The method of hiding the secret is:
 - (a) Cryptography

(b) Steganography

(c) Stenography

(d) Cryptanalysis

Answer: a

- 35. In cryptography, what is cipher?
 - a) algorithm for performing encryption and decryption
 - b) encrypted message
 - c) both (a) and (b)
 - d) none of the mentioned

Answer: a

- 36. In asymmetric key cryptography, the private key is kept by
 - a) sender

b) receiver

c) sender and receiver

d) all the connected devices to the network

Answer:b

37. In	cryptography, the order of the letters in a message is rearranged by				
	a) transpositional ciphers	b) substitution ciphers			
	c) both (a) and (b)	d) none of the mentioned			
Ar	nswer:a				
38. Th	Theis the original message before transformation.				
	A) ciphertext	B) plaintext			
	C) secret-text	D) none of the above			
Ar	nswer:B				
39. Th	e is the message after	er transformation.			
	A) ciphertext	B) plaintext			
	C) secret-text	D) none of the above			
Ar	nswer:A				
40. An	An algorithm transforms ciphertext to plaintext.				
	A) encryption	B) decryption			
	C) either (a) or (b)	D) neither (a) nor (b)			
Ar	nswer:A				
41. Th	e is a number or a set	of numbers on which the cipher operates.			
	A) cipher	B) secret			
	C)key	D) none of the above			
Ar	nswer:C				
42. In	an cipher, the same	key is used by both the sender and receiver.			
	A) symmetric-key	•			
	C) either (a) or (b)				
Ar	nswer:B	, , , , , , ,			
43. In	In an asymmetric-key cipher, the sender uses the key.				
	A) private	B) public			
	C) either (a) or (b)	D) neither (a) nor (b)			
Ar	nswer:B				
44. In	an asymmetric-key cipher, the	receiver uses the key.			
	A) private	B) public			
	C) either (a) or (b)	D) neither (a) nor (b)			
Ar	nswer:A				
45. A	cipher replaces one of	character with another character.			
	A) substitution	B) transposition			
	C) either (a) or (b)	D) neither (a) nor (b)			
Ar	nswer:A				
46. On	ne commonly used public-key c	eryptography method is the algorithm.			
	A) RSS	B) RAS			
	C) RSA	D) RAA			
Ar	nswer:C	•			

47. The Caesar cipher is aciphe	r that has a key of 3.		
A) transposition	B) additive		
C) shift	D) none of the above		
Answer:C			
48. The cipher is the simplest monoalphabetic cipher. It uses modular arithmetic with a modulus of 26.			
A) transposition	B) additive		
C) shift	D) none of the above		
Answer:C			
9 ciphers can be categorized into two broad categories: monoalphabetic and polyalphabetic.			
A) Substitution	B) Transposition		
C) either (a) or (b)	D) neither (a) nor (b)		
Answer:A			