

DataSecurityAndPrivacy-Quiz1

(UL_Info2_Data_Security_S5_Sec1_Fa2 1_22_HamssaHasrouny)

1. The assurance that data received are exactly as sent by an authorized entity is

(1 Point)

- ☒ Data integrity
- ☐ Authentication
- ☐ Data confidentiality
- ☐ Access control

2. A smart card does not have an entire microprocessor.

(0.5 Points)

☐ True

☒ False

3. The _____ is the encryption algorithm run in reverse.

(1 Point)

☒ Decryption algorithm

- ☐ Plaintext
- ☐ Encryption algorithm
- ☐ Ciphertext

4. Digital signatures and key management are the two most important applications of _____ encryption.
(1 Point)

- ☐ Private-key
- ☒ Public-key
- ☐ Advanced

5. _____ must accomplish encapsulation of incoming and outgoing data, encryption of incoming and outgoing data and Authentication.
(0.5 Points)

- ☒ VPN
- ☐ Firewall Analysis Tools
- ☐ Operating System Detection Tools

6. The most commonly used asymmetric encryption are block ciphers. They are DES, Triple DES and AES.
(0.5 Points)

- ☐ True

- ☒ False

7. Database access control can be managed centrally by a few privileged users. This is an example of MAC (Mandatory Access Control).
(0.5 Points)

☒ True

☐ False

8. The Caesar cipher of 'hawdy' encrypted using key 'f' is
(1 Point)

☐ MTIB

☐ MTBID

☒ MFBID

☐ None

9. The default set of rights should always follow the rule of least privilege or read-only access.
(0.5 Points)

☒ True

☐ False

10. On average, _____ of all possible keys must be tried in order to achieve success with a brute-force attack.
(1 Point)

☐ One-fourth

☐ Two-thirds

☒ Half

☐ Three-fourths

11. Two of the most important applications of public-key encryption are digital signatures and key management.
(0.5 Points)

☒ True

☐ False

12. In Differential backup, all the files created since the original full backup will always be copied again.
(0.5 Points)

☒ True

☐ False

13. Symmetric encryption is used primarily to provide confidentiality
(0.5 Points)

☒ True

☐ False

14. _____ is "the process of verifying an identity claimed by or for a system entity".
(1 Point)

☒ user authentication

☐ user authorization

☐ user control

☐ system management

15. If Alice wants to send verification of her identity, she can send a message encrypted with her _____ and anyone with her _____ can verify that it was from her.

(1 Point)

- ☐ Secret key, secret key
- ☐ Public key, private key
- ☒ Private key, public key
- ☐ Hash function, private key

16. _____ poses more management issues and can use large amounts of disk space.
(0.5 Points)

- ☐ network-based IDPS
- ☒ host-based IDPS

17. _____ prevents specific types of information from moving between an untrusted network and a trusted network.
(0.5 Points)

- ☐ IDPSs
- ☒ Firewalls
- ☐ Port Scanners

18. _____ backup involves making copies only of new files or of files that underwent some kind of change since the original full backup.

(1 Point)

- ☐ full
- ☐ incremental

☒ differential

19. The Transposition Ciphers of the following: 'COUNT THE COST' using the following key (3214) is:
(1 Point)

☒ HOCN ESOT CTUT

☐ HNCO ETOS CTUT

☐ HNCO EOST CTUT

20. To store data with size varying between GB to TB for more than 10 years, we do a backup over:
(0.5 Points)

☐ SD card

☐ USB flash drive

☒ SSD

21. The purpose of a _____ is to produce a "fingerprint" of a file, message, or other block of data.
(1 Point)

☒ Hash function

☐ Secret key

☐ Digital signature

22. There are two schemes to attack a symmetric encryption scheme. What are they?
(1 Point)

☒ Cryptanalysis & Brute-Force attacks

- ☐ Cryptanalysis & DDoS
- ☐ Brute-force attack and CipherText
- ☐ Cryptanalysis & Caesar

23. Public-key cryptography is symmetric.
(0.5 Points)

- ☐ True
- ☒ False

24. The original message or data that is fed into the algorithm is _____.
(1 Point)

- ☐ Encryption algorithm
- ☐ Decryption algorithm
- ☐ Secret key
- ☒ Plaintext

25. Ciphers using substitutions or transpositions are not secure.
(0.5 Points)

- ☒ True
- ☐ False

26. _____ is the scrambled message produced as output.
(0.5 Points)

- ☐ Plaintext
- ☒ Ciphertext

☐ Cryptanalysis

☐ Secret key

27. _____ is a procedure that allows communicating parties to verify that received or stored messages are authentic.

(1 Point)

☒ Message authentication

☐ Cryptanalysis

☐ Decryption

28. Cryptanalytic attacks try every possible key on a piece of ciphertext until an intelligible translation into plaintext is obtained.

(0.5 Points)

☐ True

☒ False

29. _____ consists of striping, but no mirroring or parity.

(1 Point)

☒ RAID0

☐ RAID1

☐ RAID3

☐ RAID4

30. Packet-filtering firewalls examine the header information of data packets. Most often based on the combination of:

(0.5 Points)

- ☐ IP source and destination address
- ☐ Direction (inbound or outbound)
- ☐ Transmission Control Protocol (TCP) or User Datagram Protocol (UDP) source and destination port requests
- ☒ All the choices
- ☐ None of the choices

31. A _____ is to try every possible key on a piece of ciphertext until an intelligible translation into plaintext is obtained.
(1 Point)

- ☐ Cryptanalysis
- ☒ Brute-force attack
- ☐ Hash function

32. A message authentication code is a small block of data generated by a secret key and appended to a message.
(0.5 Points)

- ☒ True
- ☐ False

33. Data integrity assures that information and programs are changed only in a specified and authorized manner.
(0.5 Points)

- ☒ True
- ☐ False

34. IDPSs can compensating for weak/missing security mechanisms in protection infrastructure
(0.5 Points)

☐ True

☒ False

35. _____detect a violation of its configuration and activate alarm.
(0.5 Points)

☒ Intrusion detection systems

☐ Firewalls

☐ Scanning and Analysis Tools

36. _____ is the granting of a right or permission to a system entity to access a system resource.
(1 Point)

☒ Authorization

☐ Control

☐ Authentication

☐ Monitoring

37. _____ implements a security policy that specifies who or what may have access to each specific system resource and the type of access that is permitted in each instance.
(1 Point)

☒ Access control

☐ System control

- ☐ Audit control
- ☐ Resource control

38. Recognition by fingerprint, and retina are examples of _____.
(1 Point)

- ☒ static biometrics
- ☐ token authentication
- ☐ face recognition
- ☐ dynamic biometrics

39. A _____ is created by using a secure hash function to generate a hash value for a message and then encrypting the hash code with a private key.
(1 Point)

- ☐ One way hash function
- ☒ Digital signature
- ☐ Secret key

40. _____ is based on the roles the users assume in a system rather than the user's identity.
(1 Point)

- ☐ DAC
- ☒ RBAC
- ☐ MAC

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