

University of Mumbai Examination June  
2021 Examination: 9th June 2021  
Program: Computer Engineering  
Curriculum Scheme: Rev2016  
Examination: TE Semester VI Course  
Code: CSC604 Course Name: CSS  
Time:1Hour20Minutes Max. Marks:  
40(Descriptive)

Total points 36/40 ?

TE Comp

Email \*

mailofvivekanand@gmail.com

Name of Student

Vivekanand Kumar

Seat Number

2162023



✓ 1. \_\_\_\_\_ defines a security service as a service that is provided by a protocol layer of communicating open systems and that ensures adequate security of the systems or of data transfers. 2/2

☒ X.800 ✓

☐ X.809

☐ X.832

☐ X.802

✓ 2. \_\_\_\_\_ are fundamental to a number of public-key algorithms, including and the digital signature algorithm (DSA). 2/2

☒ Discrete logarithms ✓

☐ Chinese remainder theorem

☐ Fermat's theorem

☐ Miller and Rabin algorithm

✓ 3. Plain text message is: "meet me after the toga party" with a rail fence of depth 2. Compute cipher text. 2/2

☒ MEMATRHTGPRYETEFETEOAAT ✓

☐ MEMATRHTGPRYETEFETFOAAT

☐ MEMATRHTHPRYETEFETEOAAT

☐ MEMATRHTGPRYETEFFTEOAOT



✓ 4. In\_\_\_\_\_ mode, the same plaintext value will always result in the same cipher text value. 2/2

- ☐ Cipher Block Chaining
- ☐ Cipher Feedback
- ☒ Electronic code book
- ☐ Output Feedback



✓ 5. DES encrypting the plaintext as block of \_\_\_\_\_ bits. 2/2

- ☒ 64
- ☐ 56
- ☐ 128
- ☐ 32



✓ 6. \_\_\_\_\_ is a symmetric block cipher that is intended to replace DES as the approved standard for a wide range of applications. 2/2

- ☒ AES
- ☐ RSA
- ☐ MD5
- ☐ RC5



✓ 7. The number of rounds in RC5 can range from 0 to \_\_\_\_\_ 2/2

- ☐ 127
- ☐ 63
- ☐ 31
- ☒ 255



✓ 8. How many rounds does the AES-192 perform? 2/2

- ☐ 10
- ☐ 14
- ☐ 16
- ☒ 12



✓ 9. For the Knapsack: {1 6 8 15 24}, Find the cipher text value for the plain text 10011. 2/2

- ☒ 40
- ☐ 15
- ☐ 14
- ☐ 39



✗ 10. Which of the following is not possible through hash value?

0/2

- ☐ Password check
- ☐ Data integrity check
- ☒ Data retrieval
- ☐ Digital signature

✗

✓ 11. Which of the following is not an element/field of the X.509 certificates?

2/2

- ☐ Issuer Name
- ☒ Serial Modifier
- ☐ Issue unique identifier
- ☐ Signature

✓

✓ 12. \_\_\_\_\_ is responsible for distributing keys to pairs of users (hosts, processes, applications) as needed

2/2

- ☒ Key distribution center
- ☐ Key analysis center
- ☐ UKey storing center
- ☐ HKey storing center

✓



✓ 13. A digital certificate system is \_\_\_\_\_.

2/2

- ☒ uses third-party CAs to validate a user's identity
- ☐ uses digital signatures to validate a user's identity
- ☐ uses tokens to validate a user's identity
- ☐ are used primarily by individuals for personal correspondence

✓

✓ 14. Hashed message is signed by a sender using

2/2

- ☐ His public key
- ☒ His private key
- ☐ Receivers public key
- ☐ Receivers private key

✓

✓ 15. The man-in-the-middle attack can endanger the security of the Diffie-Hellman method if two parties are not

2/2

- ☒ Authenticated
- ☐ Joined
- ☐ Submit
- ☐ Separate

✓



✗ 16. Which of the following does authorization aim to accomplish?.

0/2

- ☐ Restrict what operations/data the user can access
- ☐ Determine if the user is an attacker
- ☐ Flag the user if he/she misbehaves
- ☒ Determine who the user is

✗

✓ 17. \_\_\_\_\_ operates in the transport mode or the tunnel mode.

2/2

- ☒ IPSec
- ☐ SSL
- ☐ PGP
- ☐ BGP

✓

✓ 18. When a hash function is used to provide message authentication, the hash function value is referred to as 2/2

- ☐ Message Field
- ☒ Message Digest
- ☐ Message Score
- ☐ Message Leap

✓



✓ 19. Which of the following tool would NOT be useful in figuring out what spyware or viruses could be installed on a client's computer? 2/2

☒ Wireshark



☐ Malware Bytes

☐ HighjackThis

☐ HitmanPro

✓ 20. What is honey pot attack? 2/2

☒ dummy device put into the network to attract attackers



☐ single line threat

☐ Ip spoofing bypass

☐ recognition attack

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