

Online Examinations (Even Sem/Part-I/Part-II Examinations 2020 - 2021)

Course Name - --Cryptography and Cyber Security

Course Code - BCSE604A

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Answer all the questions. Each question carry one mark.

9. 1.In Elgamal cryptosystem, given the prime $p=31$.Encrypt the message "HELLO"; use 00 to 25 for encoding. The value of C2 for character 'O' is

Mark only one oval.

- 9
- 7
- 23
- 27

10. 2. What is the kind of firewall is connected between the device and the network connecting to internet.

Mark only one oval.

- Hardware Firewall
- Software Firewall
- Stateful Inspection Firewall
- Microsoft Firewall

11. 3. For $p = 11$ and $q = 17$ and choose $e=7$. Apply RSA algorithm where Cipher message=11 and thus find the plain text.

Mark only one oval.

- 88
- 122
- 143
- 111

12. 4. Aircrack-ng is used for _____

Mark only one oval.

- Firewall bypassing
- Wi-Fi attacks
- Packet filtering
- System password cracking

13. 5. _____ scans TCP ports and resolves different hostnames.

Mark only one oval.

- SuperScan
- Snort
- Ettercap
- QualysGuard

14. 6. _____ is a web application assessment security tool.

Mark only one oval.

- LC4
- WebInspect
- Ettercap
- QualysGuard

15. 7. _____ is a code injecting method used for attacking the database of a system / website.

Mark only one oval.

- HTML injection
- SQL Injection
- Malicious code injection
- XML Injection

16. 8. Which of this is an example of physical hacking?

Mark only one oval.

- Remote Unauthorised access
- Inserting malware loaded USB to a system
- SQL Injection on SQL vulnerable site
- DDoS (Distributed Denial of Service) attack

17. 9. Stuxnet is a _____

Mark only one oval.

- Worm
- Virus
- Trojan
- Antivirus

18. 10. _____ is the kind of firewall is connected between the device and the network connecting to internet.

Mark only one oval.

- Hardware Firewall
- Software Firewall
- Stateful Inspection Firewall
- Microsoft Firewall

19. 11. Packet filtering firewalls are deployed on _____

Mark only one oval.

- routers
- switches
- hubs
- repeaters

20. 12. ACL stands for _____

Mark only one oval.

- Access Condition List
- Anti-Control List
- Access Control Logs
- Access Control List

21. 13. One advantage of Packet Filtering firewall is _____

Mark only one oval.

- more efficient
- less complex
- less costly
- very fast

22. 14. Packet filtering firewalls are vulnerable to _____

Mark only one oval.

- hardware vulnerabilities
- MiTM
- phishing
- spoofing

23. 15. Which of these comes under the advantage of Circuit-level gateway firewalls?

Mark only one oval.

- They maintain anonymity and also inexpensive
- They are light-weight
- They're expensive yet efficient
- They preserve IP address privacy yet expensive

24. 16. _____ gateway firewalls are deployed in application-layer of OSI model.

Mark only one oval.

- Packet Filtering Firewalls
- Circuit Level Gateway Firewalls
- Application-level Gateway Firewalls
- Stateful Multilayer Inspection Firewalls

25. 17. Application level gateway firewalls protect the network for specific _____

Mark only one oval.

- application layer protocol
- session layer protocol
- botnet attacks
- network layer protocol

26. 18. We can also implement _____ in Stateful Multilayer Inspection firewall.

Mark only one oval.

- external programs
- algorithms
- policies
- algorithms and external programs

27. 19. Packet filtering firewalls are also called _____

Mark only one oval.

- first generation firewalls
- second generation firewalls
- third generation firewalls
- fourth generation firewalls

28. 20. _____ is an internet scam done by cyber-criminals where the user is convinced digitally to provide confidential information.

Mark only one oval.

- Phishing attack
- DoS attack
- Website attack
- MiTM attack

29. 21. Email Phishing came into origin in the year _____

Mark only one oval.

- 1990
- 2000
- 2005
- 2015

30. 22. _____ = voice + phishing.

Mark only one oval.

- Algo-based phishing
- Vishing
- Domain Phishing
- Email-based phishing

31. 23. _____ phishing is that type of phishing where the construction of a fake webpage is done for targeting definite keywords & waiting for the searcher to land on the fake webpage.

Mark only one oval.

- Voice
- SMS
- Search engine
- Email

32. 24. Which of the following is not an example or type of phishing?

Mark only one oval.

- Tracking
- Vishing
- Smishing
- Pharming

33. 25. Which of the following is not a vulnerability of the network layer?

Mark only one oval.

- Route spoofing
- Identity & Resource ID Vulnerability
- IP Address Spoofing
- Weak or non-existent authentication

34. 26. Which of the following is an example of physical layer vulnerability?

Mark only one oval.

- MAC Address Spoofing
- Physical Theft of Data
- Route spoofing
- Weak or non-existent authentication

35. 27. As a backup for securing your device, it is necessary to create a _____

Mark only one oval.

- backup point
- copy of files in separate drives
- copy of files in the same drives
- restore point

36. 28. _____ is an application which now comes built-in Windows OS & it allows Windows users to encrypt all drive for security purpose.

Mark only one oval.

- MS Windows Defender
- MSE
- BitLocker
- MS Office

37. 29. A _____ tries to formulate a web resource occupied or busy its users by flooding the URL of the victim with unlimited requests than the server can handle.

Mark only one oval.

- Phishing attack
- DoS attack
- Website attack
- MiTM attack

38. 30. The intent of a _____ is to overkill the targeted server's bandwidth and other resources of the target website.

Mark only one oval.

- Phishing attack
- DoS attack
- Website attack
- MiTM attack

39. 31. DDoS stands for _____

Mark only one oval.

- Direct Distribution of Server
- Distributed Denial of Service
- Direct Distribution of Service
- Distributed Denial of Server

40. 32. _____ is a violent act done using the Internet, which either threatens any technology user or leads to loss of life or otherwise harms anyone in order to accomplish political gain

Mark only one oval.

- Cyber-warfare
- Cyber campaign
- Cyber-terrorism
- Cyber attack

41. 33. In _____ a sequence of actions is carried out on this block after a block of plain-text bits is chosen for generating a block of cipher-text bits.

Mark only one oval.

- Block Cipher
- One-time pad
- Hash functions
- Vigenere Cipher

42. 34. DES stands for _____

Mark only one oval.

- Data Encryption Security
- Data Encrypted Standard
- Device Encryption Standard
- Data Encryption Standard

43. 35. _____ are the special type of programs used for recording and tracking user's keystroke.

Mark only one oval.

- Keylogger
- Trojans
- Virus
- Worms

44. 36. These are a collective term for malicious spying programs used for secretly monitoring someone's activity and actions over a digital medium.

Mark only one oval.

- Malware
- Remote Access Trojans
- Keyloggers
- Spyware

45. 37. Which Cryptographic system uses $C1 = (e1r) \text{ mod } p$ and $C1 = (e2r \times P) \text{ mod } p$ at the encryption side?

Mark only one oval.

- Elgamal
- RSA
- Rabin
- Whirlpool

46. 38. _____ framework made cracking of vulnerabilities easy like point and click.

Mark only one oval.

- .Net
- Metasploit
- Zeus
- Ettercap

47. 39. Which of the following deals with network intrusion detection and real-time traffic analysis?

Mark only one oval.

- John the Ripper
- L0phtCrack
- Snort
- Nessus

48. 40. Which of the below-mentioned tool is used for Wi-Fi hacking?

Mark only one oval.

- Wireshark
- Nessus
- Aircrack-ng
- Snort

49. 41. _____ is a popular IP address and port scanner.

Mark only one oval.

- Cain and Abel
- Snort
- Angry IP Scanner
- Ettercap

50. 42. _____ is a popular tool used for network analysis in multiprotocol diverse network.

Mark only one oval.

- Snort
- SuperScan
- Burp Suit
- EtterPeak

51. 43. _____ scans TCP ports and resolves different hostnames.

Mark only one oval.

- SuperScan
- Snort
- Ettercap
- QualysGuard

52. 44. Which of the following attack-based checks WebInspect cannot do?

Mark only one oval.

- cross-site scripting
- directory traversal
- parameter injection
- njecting shell code

53. 45. _____ is a password recovery and auditing tool.

Mark only one oval.

- LC3
- LC4
- Network Stumbler
- Maltego

54. 46. Network administrators can create their own ACL rules based on _____
_____ and _____

Mark only one oval.

- Address, Protocols and Packet attributes
- Address, Protocols and security policies
- Address, policies and Packet attributes
- Network topology, Protocols and data packets

55. 47. When a packet does not fulfil the ACL criteria, the packet is _____

Mark only one oval.

- resend
- dropped
- destroyed
- acknowledged as received

56. 48. In the _____ layer of OSI model, packet filtering firewalls are implemented.

Mark only one oval.

- Application layer
- Session layer
- Presentation layer
- Network layer

57. 49. Packet filtering firewalls are deployed on _____

Mark only one oval.

- routers
- switches
- hubs
- repeaters

58. 50. Which of the following is not a software firewall?

Mark only one oval.

- Windows Firewall
- Outpost Firewall Pro
- Endian Firewall
- Linksys Firewall

59. 51. Who deploy Malwares to a system or network?

Mark only one oval.

- Criminal organizations, Black hat hackers, malware developers, cyber-terrorists
- Criminal organizations, White hat hackers, malware developers, cyber-terrorists
- Criminal organizations, Black hat hackers, software developers, cyber-terrorists
- Criminal organizations, gray hat hackers, Malware developers, Penetration testers

60. 52. In cryptography, what is cipher?

Mark only one oval.

- algorithm for performing encryption and decryption
- encrypted message
- both algorithm for performing encryption and decryption and encrypted message
- decrypted message

61. 53. In cryptography, the order of the letters in a message is rearranged by _____

Mark only one oval.

- transpositional ciphers
- substitution ciphers
- both transpositional ciphers and substitution ciphers
- quadratic ciphers

62. 54. What is data encryption standard (DES)?

Mark only one oval.

- block cipher
- stream cipher
- bit cipher
- byte cipher

63. 55. Cryptographic hash function takes an arbitrary block of data and returns _____

Mark only one oval.

- fixed size bit string
- variable size bit string
- both fixed size bit string and variable size bit string
- variable sized byte string

64. 56. In tunnel mode, IPSec protects the _____

Mark only one oval.

- Entire IP packet
- IP header
- IP payload
- IP trailer

65. 57. WPA2 is used for security in _____

Mark only one oval.

- Ethernet
- Bluetooth
- Wi-Fi
- Email

66. 58. Extensible authentication protocol is authentication framework frequently used in _____

Mark only one oval.

- Wired personal area network
- Wireless networks
- Wired local area network
- Wired metropolitan area network

67. 59. PGP encrypts data by using a block cipher called _____

Mark only one oval.

- International data encryption algorithm
- Private data encryption algorithm
- Internet data encryption algorithm
- Local data encryption algorithm

68. 60. When a DNS server accepts and uses incorrect information from a host that has no authority giving that information, then it is called _____

Mark only one oval.

- DNS lookup
- DNS hijacking
- DNS spoofing
- DNS authorizing

69. 61. What protocol is NOT used in the operation of a VPN?

Mark only one oval.

- PPTP
- IPsec
- YMUM
- L2TP

70. 62.ESP (Encapsulating Security Protocol) is defined in which of the following standards?

Mark only one oval.

- IPsec
- PPTP
- PPP
- L2TP

71. 63. Which of the following is / are the types of firewall?

Mark only one oval.

- Packet Filtering Firewall
- Dual Homed Gateway Firewall
- Screen Host Firewall
- Dual Host Firewall

72. 64. Network layer firewall has two sub-categories as _____

Mark only one oval.

- State full firewall and stateless firewall
- Bit oriented firewall and byte oriented firewall
- Frame firewall and packet firewall
- Network layer firewall and session layer firewall

73. 65. A firewall needs to be _____ so that it can grow proportionally with the network that it protects.

Mark only one oval.

- Robust
- Expansive
- Fast
- Slow

74. 66. _____ persistence and up-to-date with the latest technological updates and their flaws are some of the major qualities; an ethical hacker must need to have

Mark only one oval.

- Lack of understanding
- Weak programming skills
- High patience
- Low perseverance

75. 67. Which of the following do not come under the intangible skills of hackers?

Mark only one oval.

- Creative thinking
- Problem-solving capability
- Persistence
- Smart attacking potential

76. 68. Which of the following is not a secured mail transferring methodology?

Mark only one oval.

- POP3
- SSMTP
- Mail using PGP
- S/MIME

77. 69. _____ is a set of conventions & rules set for communicating two or more devices residing in the same network?

Mark only one oval.

- Security policies
- Protocols
- Wireless network
- Network algorithms

78. 70. SSL primarily focuses on _____

Mark only one oval.

- integrity and authenticity
- integrity and non-repudiation
- authenticity and privacy
- confidentiality and integrity

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