

BRAINWARE UNIVERSITY

Term End Examination 2021 - 22 Programme – Bachelor of Technology in Computer Science & Engineering Course Name – Cryptography and Cyber Security Course Code - BCSE604A (Semester VI)

Time allotted: 1 Hrs.25 Min.

[The figure in the margin indicates full marks.]

Group-A

(Multiple Choice Type Question)

1 x 70=70

Choose the correct alternative from the following:

(1) What is the kind of firewall is connected between the device and the network connecting to internet

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a) Hardware Firewall	b) Software Firewall
c) Stateful Inspection Firewall	d) Microsoft Firewall
(2) Wireshark is a tool	a) Meroson i ne wan
a) network protocol analysis	b) network connection security
c) connection analysis	d) defending malicious packet-filtering
•	a) defending manerous packet intering
(3) Aircrack-ng is used for	1 \ W' E' 44 1
a) Firewall bypassing	b) Wi-Fi attacks
c) Packet filtering	d) System password cracking
(4) scans TCP ports and reso	olves different hostnames.
a) SuperScan	b) Snort
c) Ettercap	d) QualysGuard
(5) is a web application assess	sment security tool.
a) LC4	b) WebInspect
c) Ettercap	d) QualysGuard
(6) is a code injecting meth	od used for attacking the database of a system / website.
a) HTML injection	b) SQL Injection
c) Malicious code injection	d) XML Injection
(7) Stuxnet is a	
a) Worm	b) Virus
c) Trojan	d) Antivirus
(8) is the kind of firew necting to internet.	vall is connected between the device and the network con
a) Hardware Firewall	b) Software Firewall

d) Microsoft Firewall

c) Stateful Inspection Firewall

a) Phishing	b) Dumpster diving
c) Denial of Service (DoS)	d) Shoulder surfing
(10) Packet filtering firewalls are deployed on	
a) routers	b) switches
c) hubs	d) repeaters
(11) ACL stands for	
a) Access Condition List	b) Anti-Control List
c) Access Control Logs	d) Access Control List
(12) One advantage of Packet Filtering firewall is	
a) more efficient	b) less complex
c) less costly	d) very fast
(13) Packet filtering firewalls are vulnerable to	
a) hardware vulnerabilities	b) MiTM
c) phishing	d) spoofing
(14) Which of the following is a disadvantage of Circ	cuit-level gateway firewalls?
a) They're expensive	b) They're complex in architecture
c) They do not filter individual packets	d) They're complex to setup
(15) gateway firewalls are deployed	l in application-layer of OSI model.
a) Packet Filtering Firewalls	b) Circuit Level Gateway Firewalls
c) Application-level Gateway Firewalls	d) Stateful Multilayer Inspection Firewalls
(16) Application level gateway firewalls protect the	network for specific
a) application layer protocol	b) session layer protocol
c) botnet attacks	d) network layer protocol
(17) is an internet scam done by cy ly to provide confidential information.	yber-criminals where the user is convinced digital
a) Phishing attack	b) DoS attack
c) Website attack	d) MiTM attack
(18) Email Phishing came into origin in the year	
a) 1990	b) 2000
c) 2005	d) 2015
(19) type of phishing became very e source with a legitimate link to its official web	very popular as if it has been sent from a legitimat osite.
a) Algo-based phishing	b) Email-based phishing
c) Domain Phishing	d) Vishing
(20) = voice + phishing.	
a) Algo-based phishing	b) Vishing
c) Domain Phishing	d) Email-based phishing
et a fake order detail with a cancellation link.	t types of phishing where the target victims may g
a) Algo-based phishing	b) SMS phishing
c) Domain Phishing	d) Spear phishing
	shing where the construction of a fake webpage is
done for targeting definite keywords & waiting	
a) Voice	b) SMS
c) Search engine	d) Email
(23) Which of the following is not an example or typ	pe of phishing?

(9) A firewall protects which of the following attacks?

c) Smishing (24) Which of the following is not a vulnerability of the network layer? a) Route spoofing b) Identity & Resource ID Vulnerability c) IP Address Spoofing d) Weak or non-existent authentication (25) Which of the following is an example of physical layer vulnerability? a) MAC Address Spoofing b) Physical Theft of Data c) Route spoofing d) Weak or non-existent authentication (26) As a backup for securing your device, it is necessary to create a a) backup point b) copy of files in separate drives c) copy of files in the same drives d) restore point (27) is an application which now comes built-in Windows OS & it allows Windows use
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(27) is an application which now comes built-in Windows OS & it allows Windows use
rs to encrypt all drive for security purpose.
a) MS Windows Defender b) MSE
c) BitLocker d) MS Office
(28) 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.
a) Phishing attack b) DoS attack
c) Website attack d) MiTM attack
(29) During a DoS attack, the regular traffic on the target will be either dawdling do wn or entirely interrupted.
a) network b) system
c) website d) router
(30) DoS is abbreviated as
a) Denial of Service b) Distribution of Server
c) Distribution of Service d) Denial of Server
(31) is a type of DoS threats to overload a server as it sends a large number of requests requiring resources for handling & processing.
a) Network Layer DoS b) Physical Layer DoS
c) Transport Layer DoS d) Application Layer DoS
(32) In a sequence of actions is carried out on this block after a block of plain-text bit s is chosen for generating a block of cipher-text bits.
a) Block Cipher b) One-time pad
c) Hash functions d) Vigenere Cipher
(33) The procedure to add bits to the last block is termed as
a) decryption b) hashing
c) tuning d) padding
(34) DES stands for
a) Data Encryption Security b) Data Encrypted Standard
c) Device Encryption Standard d) Data Encryption Standard
(35) are the special type of programs used for recording and tracking user's keystroke.
a) Keylogger b) Trojans
c) Virus d) Worms
(36) These are a collective term for malicious spying programs used for secretly monitoring someon e's activity and actions over a digital medium.
a) Malware b) Remote Access Trojans
c) Keyloggers d) Spyware
(37) XSS is abbreviated as

a) Extreme Secure Scripting	b) Cross Site Security
c) X Site Scripting	d) Cross Site Scripting
(38) Which Cryptographic system uses C1 = (e1) ide?	r) mod p and C1 = $(e2r \times P)$ mod p at the encryption s
a) Elgamal	b) RSA
c) Rabin	d) Whirlpool
(39) Compute private key (d, p, q) given public k	key (e=23, n=233 ′ 241=56,153).
a) 35212	b) 12543
c) 19367	d) 32432
(40) framework made cracking of vuln	nerabilities easy like point and click.
a) .Net	b) Metasploit
c) Zeus	d) Ettercap
(41) is a popular tool used for disco	vering networks as well as in security auditing.
a) Ettercap	b) Metasploit
c) Nmap	d) Burp Suit
(42) Which of this Nmap do not check?	
a) services different hosts are offering	b) on what OS they are running
c) what kind of firewall is in use	d) what type of antivirus is in use
(43) Which of the following deals with network	intrusion detection and real-time traffic analysis?
a) John the Ripper	b) L0phtCrack
c) Snort	d) Nessus
(44) Which of the below-mentioned tool is used	for Wi-Fi hacking?
a) Wireshark	b) Nessus
c) Aircrack-ng	d) Snort
(45) Aircrack-ng is used for	
a) Firewall bypassing	b) Wi-Fi attacks
c) Packet filtering	d) System password cracking
(46) is a popular IP address and	port scanner.
a) Cain and Abel	b) Snort
c) Angry IP Scanner	d) Ettercap
(47) is a popular tool used for	r network analysis in multiprotocol diverse network.
a) Snort	b) SuperScan
c) Burp Suit	d) EtterPeak
(48) scans TCP ports and resolve	s different hostnames.
a) SuperScan	b) Snort
c) Ettercap	d) QualysGuard
(49) In the layer of OSI model	, packet filtering firewalls are implemented.
a) Application layer	b) Session layer
c) Presentation layer	d) Network layer
(50) Packet filtering firewalls are deployed on	
a) routers	b) switches
c) hubs	d) repeaters
(51) Firewall examines each that	are entering or leaving the internal network.
a) emails users	b) updates
c) connections	d) data packets
(52) Which of the following is not a software fire	ewall?
a) Windows Firewall	b) Outpost Firewall Pro

c) Endian Firewall	d) Linksys Firewall	
(53) Which one of the following algorithm is not used in a	symmetric-key cryptography?	
a) rsa algorithm	b) diffie-hellman algorithm	
c) electronic code book algorithm	d) dsa algorithm	
(54) In cryptography, the order of the letters in a message is rearranged by		
a) transpositional ciphers	b) substitution ciphers	
c) both transpositional ciphers and substitution ciphers	d) quadratic ciphers	
(55) What is data encryption standard (DES)?		
a) block cipher	b) stream cipher	
c) bit cipher	d) byte cipher	
(56) Which one of the following is a cryptographic protoco	ol used to secure HTTP connection?	
a) stream control transmission protocol (SCTP)	b) transport layer security (TLS)	
c) explicit congestion notification (ECN)	d) resource reservation protocol	
(57) ElGamal encryption system is		
a) symmetric key encryption algorithm	b) asymmetric key encryption algorithm	
c) not an encryption algorithm	d) block cipher method	
(58) Cryptographic hash function takes an arbitrary block of data and returns		
a) fixed size bit string	b) variable size bit string	
c) both fixed size bit string and variable size bit strin	d) variable sized byte string	
g	variable sized byte string	
(59) In tunnel mode, IPSec protects the		
a) Entire IP packet	b) IP header	
c) IP payload	d) IP trailer	
(60) Which component is included in IP security?		
a) Authentication Header (AH)	b) Encapsulating Security Payload (ESP)	
c) Internet key Exchange (IKE)	d) All of the mentioned	
(61) WPA2 is used for security in		
a) Ethernet	b) Bluetooth	
c) Wi-Fi	d) Email	
(62) Extensible authentication protocol is authentication fr	amework frequently used in	
a) Wired personal area network	b) Wireless networks	
c) Wired local area network	d) Wired metropolitan area network	
(63) Pretty good privacy (PGP) is used in		
a) Browser security	b) Email security	
c) FTP security	d) WiFi security	
(64) PGP encrypts data by using a block cipher called		
a) International data encryption algorithm	b) Private data encryption algorithm	
c) Internet data encryption algorithm	d) Local data encryption algorithm	
(65) When a DNS server accepts and uses incorrect informing that information, then it is called	nation from a host that has no authority givi	
a) DNS lookup	b) DNS hijacking	
c) DNS spoofing	d) DNS authorizing	
(66) What protocol is NOT used in the operation of a VPN?		
a) PPTP	b) IPsec	
c) YMUM	d) L2TP	
(67) VPNs are financially speaking		

c) Usually cheaper than leased lines	d) Usually more expensive than leased lines
(68) ESP (Encapsulating Security Protocol) is defined in w	hich of the following standards?
a) IPsec	b) PPTP
c) PPP	d) L2TP
(69) A proxy firewall filters at	
a) Physical layer	b) Data link layer
c) Network layer	d) Application layer
(70) Which of the following is / are the types of firewall?	
a) Packet Filtering Firewall	b) Dual Homed Gateway Firewall
c) Screen Host Firewall	d) Dual Host Firewall

b) Always cheaper than leased lines

a) Always more expensive than leased lines