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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)

Full Marks: 70 Time allotted: 1 Hrs.25 Min. [The figure in the margin indicates full marks.] Group-A 1 x 70=70 (Multiple Choice Type Question) Choose the correct alternative from the following: (1) What is the kind of firewall is connected between the device and the network connecting to inter b) Software Firewall a) Hardware Firewall d) Microsoft Firewall c) Stateful Inspection Firewall (2) Wireshark is a _____ tool b) network connection security a) network protocol analysis d) defending malicious packet-filtering c) connection analysis (3) Aircrack-ng is used for b) Wi-Fi attacks a) Firewall bypassing d) System password cracking c) Packet filtering (4) _____ scans TCP ports and resolves different hostnames. b) Snort a) SuperScan d) QualysGuard c) Ettercap (5) ______ is a web application assessment security tool. b) WebInspect a) LC4 d) QualysGuard c) Ettercap (6) ______ is a code injecting method used for attacking the database of a system / website. b) SQL Injection a) HTML injection d) XML Injection c) Malicious code injection (7) Stuxnet is a _____ b) Virus a) Worm d) Antivirus c) Trojan is the kind of firewall is connected between the device and the network con (8)

b) Software Firewall

d) Microsoft Firewall

necting to internet.

a) Hardware Firewall

c) Stateful Inspection Firewall

(9) A firewall protects which of the following attack	S7
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	uit-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	
a) Packet Filtering Firewalls	b) Circuit Level Gateway Firewalls
c) Application-level Gateway Firewalls	d) Stateful Multilayer Inspection Firewall
(16) Application level gateway firewalls protect the ne	
a) application layer protocol	b) session layer protocol
c) botnet attacks	d) network layer protocol
	per-criminals where the user is convinced digital
ly to provide confidential information.	or or minimum whose the upor is convenient angular
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 ve	
e source with a legitimate link to its official webs	ite.
a) Algo-based phishing	b) Email-based phishing
c) Domain Phishing	d) Vishing
$(20) \underline{\hspace{1cm}} = \text{voice} + \text{phishing}.$	
a) Algo-based phishing	b) Vishing
c) Domain Phishing	d) Email-based phishing
et a fake order detail with a cancellation link.	ypes of phishing where the target victims may g
a) Algo-based phishing	b) SMS phishing
c) Domain Phishing	d) Spear phiching
(22) phishing is that type of phish done for targeting definite keywords & waiting for	
, and the state of	or the searcher to land on the fake webpage is
4) 10100	b) SMS
c) Search engine	d) Email
(23) Which of the following is not an example or type	of phishing?

a) Tracking	b) Vishing	
c) Smishing	d) Pharming	
and a state and a support of the network layer?		
a) Route spoofing	b) Identity & Resource 15	
c) IP Address Spoofing	d) Weak or non-existent authentication	
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a) MAC Address Spoofing	b) Physical Theft of Data Brainward Road, Brainward Road,	
a) Route spoofing	d) Weak or non-existent authentication. West Bengain	
(26) As a backup for securing your device, it is necessary	b) Physical Theft of Data Brainware Onto Brainware Onto Physical Theft of Data d) Weak or non-existent authentical Onto Physical Road, West Bengal-7 Kolkala, West Bengal-7	
a) backup point	b) copy of files in separate drives	
CC1 - in the same drives	d) restore point	
(27) is an application which now comes by	uilt-in Windows OS & it allows Windows use	
rs to encrypt all drive for security purpose.		
a) MS Windows Defender	b) MSE	
	d) MS Office	
tries to formulate a web resour	ce 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	
a) Wahsita attack	d) MiTM attack	
(29) During a DoS attack, the regular traffic on the target	et 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	d out on this block after a block of plain-text bit	
s is chosen for generating a block of cipher-text bi	its.	
	b) One-time pad	
a) Block Cipher c) Hash functions	d) Vigenere Cipher	
C) Hash functions		
(33) The procedure to add bits to the last block is term		
a) decryption	b) hashing	
c) tuning	d) padding	
(34) DES stands for		
a) Data Encryption Security	b) Data Encrypted 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		
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	b) Cross Site Security
a) Extreme Secure Scripting	d) Cross Site Scripting
c) X Site Scripting	p = p = p = p = p = p = p = p = p = p =
(38) Which Cryptographic system uses Cr	•
ide?	b) RSA
a) Elgamal	d) Whirlpool
c) Rabin (39) Compute private key (d, p, q) given public ke	ey (e=23, n=233 ′ 241=56,153).
	b) 12543
a) 35212	d) 32432
c) 19367 (40) framework made cracking of vulne	erabilities easy like point and click.
	b) Metasploit
a) .Net	d) Ettercap
c) Zeus (41) is a popular tool used for discovery	ering networks as well as in security auditing.
	b) Metasploit
a) Ettercap c) Nmap	d) Burp Suit
(42) Which of this Nmap do not check?	3) = 3.7
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
Which of the following deals with network in	
a) John the Ripper	b) L0phtCrack
c) Snort	d) Nessus
c) Snort (44) Which of the below-mentioned tool is used for a) Wireshark c) Aircrack-ng	
a) Wireshark	b) Nessus
a) Wireshark c) Aircrack-ng	d) Snort
(45) Aircrack-ng is used for	u) Short
a) Firewall bypassing	b) Wi-Fi attacks
c) Packet filtering	d) System password cracking
(46) is a popular IP address and po	
a) Cain and Abel	b) Snort
c) Angry IP Scanner	d) Ettercap
	etwork analysis in multiprotocol diverse network.
a) Snort	b) SuperScan
c) Burp Suit	d) EtterPeak
(48) scans TCP ports and resolves of	different hostnames
a) SuperScan	b) Snort
c) Ettercap	d) QualysGuard
(49) In the layer of OSI model, p	acket filtering firewalls are implemented
a) Application layer	b) Session layer
c) Presentation layer	d) Network layer
(50) Packet filtering firewalls are deployed on	d) Network layer
a) routers	b) quitale
c) hubs	b) switches
(51) Firewall examines each that are	d) repeaters
a) emails users	e entering or leaving the internal network.
c) connections	b) updates
(52) Which of the following is not a software firewa	d) data packets
a) Windows Firewall	
	b) Outpost Firewall Pro age 4 of 6

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e) 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	
e) electronic code book algorithm	d) dsa algorithm	
(54) In cryptography, the order of the letters in a message	is rearranged by Library	
a) transpositional ciphers	Brainway	
 c) both transpositional ciphers and substitution ciphers 	d) quadratic ciphers quadratic ciphers Application ciphers 398, Ramkrishnapur Road, Barkolkata, West Bengal-70012	
(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 protoc	col 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 samig	
(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	framework 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 info ng that information, then it is called	rmation 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		

 a) Always more expensive than leased lines c) Usually cheaper than leased lines (68) ESP (Encapsulating Security Protocol) is defined a) IPsec c) PPP 	 b) Always cheaper than leased lines d) Usually more expensive than leased lines in which of the following standards? b) PPTP d) L2TP
a) Physical layer c) Network layer (70) Which a felt a felt wing in / are the types of firewa	b) Data link layer d) Application layer
(70) Which of the following is / are the types of firewaa) Packet Filtering Firewallc) Screen Host Firewall	b) Dual Homed Gateway Firewall d) Dual Host Firewall