EXIT EXAMINATION FOR SOFTWARE AND INFORMATION SYSTEM

1.	Which one of the following includes in the	C.I.A. triangle					
	A. Confidentiality, Integrity, Availability						
	B. Accountability, Confidentiality, Integrit	B. Accountability, Confidentiality, Integrity					
	C. Confidentiality, Intrusion and Authoriza	ition					
	D. Confidentiality, Integrity, Authentication	n					
2.	Among the things that can facilitate unauthor	orized access to a computer by attackers are:					
	A. Software						
	B. Hardware						
	C. Procedural weakness of a safeguard						
	D. All						
3.	The absence or weakness of a safeguard tha	t could be exploited is called:					
	A. Threat	C. Attack					
	B. Vulnerability	D. Possibility					
4.	A threat is:						
	A. The potential danger to information or systems						
	B. Flaws in a computer system that weaker	B. Flaws in a computer system that weaken the overall security of the device/system.					
	C. Try to gain illegal access to electronic d	ata stored on a computer or a network.					
	D. All						
5.	A cybersecurity safeguard could be:						
	A. Software/ Application	C. Both					
	B. Physical security	D. None					
6.	The statement, "Information systems should be configured to require strong passwords,"						
	is an example of a/an:						
	A. Security requirement	C. Security objective					
	B. Security policy	D. Security control					
7.	An information system that processes sensitive information is configured to require a						
		user. This process of accepting and validating					
	this information is known as:						
	A. Authentication	C. Two-factor authentication					
	B. Strong authentication	D. Single sign-on					
8.	Palm scan, fingerprint scan, and iris scan are forms of:						
	A. Strong authentication	C. Biometric authentication					
	B. Two-factor authentication	D. Single sign-on					
9.	When the means of authentication cannot later be refuted—the user cannot later deny that						
	he or she performed the activity is known _	·					
	A. Authentication	C. non-repudiation					
	R Authorization	D. None					

10 is the act of determining whether	r a particular user (or computer system)				
has the right to carry out a certain activity, such as reading a file or running a program.					
A. Authentication	C. non-repudiation				
B. Authorization	D. All of the above				
11. When users cannot access the network or specific					
experience a	F				
A. Availability	C. diagnostic problem				
B. Denial of service	D. All				
12. Keyloggers are a form of					
A. Spyware	C. Trojan				
B. Shoulder Surfing	D. Social Engineering				
13. Phishing is a form of					
A. Impersonation	C. Identify Theft				
B. Spamming	D. Scanning				
14. To hide information inside a picture, what technol	ogy is used?				
A. Rootkits	C. Steganography				
B. Bitmapping	D. Image Rendering				
15. An information security project team would include					
A. System administrator but not a data custodian					
B. Risk assessment specialists but not security po	licy developers				
C. Data custodian but not a system administrator	or an end user				
D. Data custodian, system administrators, security	y policy developers				
16. In cryptography, what is cipher?					
A. algorithm for performing encryption and decry	ption				
B. encrypted message					
C. decrypted message					
D. All					
17. In asymmetric key cryptography, the private key i	s kept by				
A. Sender	C. Sender and Receiver				
B. Receiver	D. all				
18. In cryptography, the order of the letters in a messa	ge is rearranged by				
A. Transpositional ciphers	C. Both				
B. Substitution ciphers	D. None				
19 algorithm transforms ciphertext to plaintext	•				
A. Encryption	C. Both				
B. Decryption	D. None				
20. One commonly used public-key cryptography met	hod is the algorithm.				
A. RSS	C. RAS				
B. RSA	D. RAA				
21. Which of the following is not a cybercrime?					

	A.	Denial of Service	C.	Malware					
	B.	Man in the Middle	D.	AES					
22.	Wh	Which of the following is defined as an attempt to steal, spy, damage or destroy computer							
		systems, networks, or their associated information?							
	A.	Cyber Attack	C.	Cryptography					
	B.	Computer security	D.	Digital hacking					
23.	Wh	at are the features of cyber security?							
		Compliance	C.	Threat Prevention					
	B.	Defense against internal threats	D.	All					
24.	A c	yber-criminal or penetration tester uses the addit	ion	al data that stores certain special					
	inst	tructions in the memory for activities to break the	e sy	stem in which of the following					
	atta	ack?							
	A.	Clickjacking	C.	Phishing					
	B.	Buffer-overflow	D.	SQL-injection					
25.	The	ey are nefarious hackers, and their main motive i	s to	gain financial profit by doing					
	cyb	cyber-crimes. Who are "they" referred to here?							
	A.	White Hat Hackers	C.	Hactivists					
	B.	Black Hat Hackers	D.	Gray Hat Hackers					
26.	Wh	Which of the following DDoS in mobile systems wait for the owner to trigger the cyber							
	atta	ack?							
	A.	Botnets	C.	Virus					
		Programs	D.	worms					
27.	What does SSL stand for?								
		Saving Sharing and Limits		Secure Socket Limbs					
		Safe, Secured and Locked	D.	Secure Socket Layers					
28.		ewalls are used to protect against	_						
		unauthorized attacks		data driven attacks					
		virus attacks	D.	fire attacks					
29.		nat port does Telnet use?	~	• •					
	A.			20					
	В.			23					
30.		umeration is part of what phase of Ethical Hackin	-						
		Reconnaissance		Gaining Access					
		Maintaining Access	D.	Scanning					
31.		ow do you prevent SQL injection?	~						
		Interrupt requests		Merge tables					
		Escape queries		All					
32.	. Which of these software engineering techniques can catch buffer overflow errors?								
		Testing		Multi-platform testing					
	В.	Code inspection	D.	All					

33.	3. Which stage of risk management framework, we create a coherent strategy for offensive				
	the risks in a cost-effective manner.				
	A. Synthesize and Rank the Risks				
	B. Identify the Business and Technical Risks				
	C. Define the Risk Mitigation Strategy				
	D. Carry Out Fixes and Validate				
34.	If the JS code is on the page https://website.com/app		is a request to		
	https://subdomain.website.com a same-origin reques	st?			
	A. Yes	C.	It depends on port number		
	B. No	D.	None		
	Which one of the following refers to the technique umessage?	ised	for verifying the integrity of the		
	A. Digital signature	C.	Protocol		
	B. Decryption algorithm	D.	Message Digest		
36.	Which one of the following principles of cyber secu	rity	refers that the security		
	mechanism must be as small and simple as possible	?			
	A. Open-Design	C.	Least privilege		
	B. Economy of the Mechanism	D.	Fail-safe Defaults		
37.	Suppose system admin in BDU-SIMS have the roo	ot ac	ccess to a BDU-SIMS system, and		
	will create account to other staffs. Instructors have t	he 1	right to prepare and submit student		
	grade. Students have the right to view their grad	e aı	nd not to prepare and submit the		
	grade. It can be considered as a perfect example of	whi	ch principle of cyber security?		
	A. Least privileges	C.	Separation of Privileges		
	B. Open Design	D.	Both A & C		
38.	Security engineers build systems that have their	ass	sets from attack.		
	A. The ability to product		The ability to protect		
	B. The ability to project	D.	All		
39.	Software security provides that enable a software	are s	system to protect its assets from		
	attack.				
	A. The mechanisms	C.	The software process		
	B. The ability to product	D.	None		
40.	Amongst which of the following is / are; a security	mod	lel needs to capture		
	A. Security policy objectives, external interface rec	uire	ements		
	B. Software security requirements, rules of operation	on			
	C. Specifications describing model-system correspondent	ond	ence.		
	D. All				
41.	Hackers often gain entry to a network be pretending	to i	be at a legitimate computer		
	A. Spoofing	C.	IP Spoofing		
	B. Forging		All		
	Which of the following is the type of SQL Injection	atta	ack?		
	A. It inserts the data		It updates the data		

	C. 3	It deletes the data	D.	All				
43.	Poir	nt out the correct statement.						
	A . 3	Parameterized data cannot be manipulated by a	ed data cannot be manipulated by a skilled and determined attacker					
	B. 3	Procedure that constructs SQL statements should	d be	e reviewed for injection				
	,	vulnerabilities						
	C. '	The primary form of SQL injection consists of in	ndir	rect insertion of code				
	D. 1	None						
44.	44. Select the correct statement which will return all the rows from the Table and then also			ws from the Table and then also				
		etes the Table_Add table?						
		SELECT * FROM Table; DROP TABLE Table						
		SELECT * WHERE Table; DROP TABLE Tab						
		SELECT * FROM Table; DELETE TABLE Tal						
		SELECT * WHERE Table; DELETE TABLE T						
45.		ich of the following types of hacker attacks runs	a p	program that simply throws billions				
		haracter combinations at a password?	~					
		Dictionary attack		Brute force attack				
1.		Social engineering Attack		Phishing attack				
46.	•	ype of malicious software designed to block acce	ess t	to a computer system until a sum				
		noney is paid.		Mil				
		Adware		Malware				
47		Ransomwear		Winterwear				
47.	7. A collection of cryptographic hashes, random-looking strings of characters into which the passwords have been mathematically transformed to prevent them from being misused.							
	-	Trick or treat	-	Encryption				
		Hash		Password				
18								
4 0.		Which of the following is an example of passive online attack? A. Phishing						
		Social Engineering						
		Spamming Spamming						
		Wire sniffing						
49.		at validation should be based on						
	-	A. Whitelisting						
		Blacklisting						
	C. 3	Both						
	D. 3	None						
50.	You	ar application sets a cookie with secure attribute.	Wł	hat does this mean?				
	A. '	The cookie cannot be accessed by JavaScript						
		The cookie will not be sent cross-domain						
		Client will send cookie only over an HTTPS cor	nec	ction				
51		none are programs that are created on your lo	cal a	computer when you visit websites				
51.		are programs that are created on your to	car '	computer when you visit websites.				

	A.	Firewall	C.	History			
	B.	Cookies	D.	All			
52.	We	eb browsers have designed to store	pas	swords used in forms on websites.			
	A.	Cookies	C.	History			
	B.	Built – in password management	D.	None of the above			
53.	On	e operation that frequently has cross-site scripting	g (X	XSS) vulnerabilities is			
	A.	A user visits a site's homepage.					
	B.	A site prompts the user for their user name and I	pass	word.			
	C.	A site produces an error message for an invalid	usei	name.			
	D.	A user clicks on a hyperlink to visit another pag	e in	the same site.			
54.	On	e common strategy to prevent XSS vulnerabilitie	s is	to			
		Educate your users to recognize safe vs. unsafe	web	pages.			
		Escape user's input is valid as soon as possible.					
		Avoid using JavaScript in your site.					
		Use an interpreted programming language such	as J	ava or C#.			
55.		oss-site request forgery (CSRF) vulnerabilities					
	A.	Are partially corrected by adding and validating secure random number as its value.	on	submission a hidden field with a			
	D		the	augar nama in the data cant heal			
	В.	Only affect pages with forms that do not include to the server.	· uic	s user name in the data sent back			
	\mathbf{C}	Are common in sites that avoid JavaScript on pa	TAC.	that contain one or more forms			
		Are common in sites that rely heavily on JavaSc	_				
		one or more forms.	F -	,,,			
56.	If a	a site has an unusually short session timeout (e	.g.:	2 minutes) and has an unusually			
		ge logout button on the top of every page, one i					
		event what type of attack?					
	A.	SQL Injection					
	B.	Cross-Site Request Forgery (CSRF)					
	C.	Cross-Site Scripting (XSS)					
	D.	Session Management					
57.	Wh	nich of the following strategies prevents a SQL in	ijeci	tion vulnerability			
	A.	Carefully validating user input and rejecting inv requests.	alid	input before executing any SQL			
	B.	Ensuring that you use only database software that	at h	as been widely tested and is			
		generally considered secure.		•			
	C.	Using prepared statements at runtime instead of	dyn	namically evaluating SQL.			
	D.	D. All					
58.		is the science to make them secure and ar	t of	transforming messages and			
	imı	mune to attacks					
	A.	Cryptography	B.	Cryptoanalysis			

	C. Both		D.	None			
59.	The	_ cipher is the simplest monoal	lphabetic cip	her. It uses modular arithmetic			
	with a modu						
	A. Transpos	sition	C.	Shift			
	B. Additive	3	D.	None			
60.	A modern ci	ipher is usually a complex	cipher ma	de of a combination of different			
	simple ciphe	ers.					
	A. Round		C.	Square			
	B. Circle		D.	None			
61.	ECB and CE	BC are ciphers					
	A. Block		C.	Field			
	B. Stream		D.	none			
62.	The	method provides a one-time	e session key	for two parties			
	A. Diffie-H	Iellman	C.	DES			
	B. RSA		D.	AES			
63.	Is penetratio	on testing used to help or for da	imaging a sys	stem?			
	A. Helping		C.	Damaging			
	B. Securing	g	D.	Both A & C			
64.	Which of th	he following are possible vulne	rabilities in a	a database?			
	A. Using D	ELETE to delete table data					
	B. Using th	ne DROP command					
	C. SQL inje	ection					
	D. All						
65.	Penetration	testing should focus on what so	cenarios?				
	A. Most like	tely	C.	Both			
	B. Most da	_	D.	None			
66.	What is soci	ial engineering?					
	_	orce to gain access to the inform	<u> </u>				
	_		or wireless	networks to gain access to the			
		tion you need					
			that you are s	someone you are not to gain access			
		formation you need					
	_	orce to gain all the information					
67.		risk involved in doing penetrat	ion testing?				
		A. You have to pay for the testing.					
	-	3. Some operations of the company might slow down.					
		od to use WAF.					
	D. None	0.11					
68.		e following groups must a pene					
	A. Docume	entation, Log, System configura	ation, Rulese	t, Network sniffing, File integrity			

	Documentation, Log, System Configuration, N				
C.	Documentation, Log, System Configuration, N	Vetwo	ork Sniffing, Ruleset, File		
	Integrity, Personnel				
D.	None				
	hat are the main penetration testing phases?				
A.	Discovery => Planning => Report => Attack				
B.	Planning => Discovery => Report => Attack				
	Planning => Discovery => Attack => Report				
D.	Planning => Attack => Discovery=>Report				
70. Th	e command to remove a table customer from a	datab	pase is:		
A.	REMOVE TABLE CUSTOMER;				
B.	DROP TABLE CUSTOMER;				
C.	DELETE TABLE CUSTOMER;				
D.	UPDATE TABLE CUSTOMER;				
71. W	hich of the following protocols is used for trans	lating	g IP addresses to MAC addresses?		
A.	DHCP	C.	ARP		
B.	DNS	D.	UDP		
72. A	DHCP server is responsible for providing which	h of t	he following to its client?		
A.	MAC Address	C.	Protocol		
B.	IP Address	D.	All		
73. W	73. Which of the following helps detect malicious attacks over a network using the signature				
ma	atching technique?				
A.	Router	C.	Intrusion Detection System		
B.	Switch	D.	All		
74. Fi	ngerprint scan is an authentication technique bas	sed o	n which of the following		
pr	nciples?		_		
A.	Something you have	C.	Something you know		
B.	Something you are	D.	None of the above		
	enial of Service attacks affects which of the follo	owing	g factors?		
	Confidentiality		Availability		
	Integrity		All of the above		
	hich of the following is a test wherein the pen-to				
	target system/network?				
	Black box testing	C.	Gray box testing		
	White box testing		Blue box testing		
	hich of the following terms best describes the cl		_		
	stem will materialize?				
•	Threat	C	Weakest link		
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78. Which of the following best describe the term 'a security?	sset' in the context of information
A. Anything that an organization buys	
B. Anything that an organization sells	
C. Anything that has a value to the organization	
D. Anything that is situated within an organizat	
79 Techniques rely on the manual	-
the code or other project documentation without	
A. Static testing	C. Reviews
B. Dynamic testing	D. All
80. What is true regarding static analysis tools?	2
A. It compares actual and expected result	
B. It can detect memory leaks	
C. gives quality information about code without	executing it
D. It tell about percentage of a code coverage	
81. Applications developed by programming langua	ges like and have this common
buffer-overflow error.	Sec
A. C, Ruby	C. C, C++
B. Python, Ruby	D. Tcl, C#
82. Who deploy Malwares to a system or network?	
A. Criminal organizations, Black hat hackers, m	nalware developers, cyber-terrorists
B. Criminal organizations, White hat hackers, n	
C. Criminal organizations, Black hat hackers, so	
D. Criminal organizations, gray hat hackers, Ma	
83. This attack can be deployed by infusing a malici	
What is "this" attack referred to here?	
A. SQL injection	C. Cross Site Scripting (XSS)
B. HTML Injection	D. Cross Site Request Forgery (XSRF)
84. After performing the ethical hack	
information to other parties.	
A. hacking	C. penetration testing
B. cracking	D. exploiting
85. Ideally, what characters should you use in a pass	
A. Letters and Numbers only.	C. Special Characters
B. Mixed Case Characters	D. All
86. Brute force attack is	
A. Fast	C. Slow
B. Inefficient	D. Complex to understand
87. Which one of the following comes under the adv	-
A. Moderate efficient	B. Time-consuming

	C. Complex to carry-out	D.	Very fast
88.	What are examples of network sniffing tools?		
	A. Bash, Nano, VI	C.	Wireshark, Tshark, TCPdump
	B. Nmap, Metasploit, Nessus	D.	None
89.	Which is the largest disadvantage of the symmetric	Enc	eryption?
	A. More complex and therefore more time-consum	ning	calculations.
	B. Problem of the secure transmission of the Secre	t Ke	ey.
	C. Less secure encryption function.		
	D. Isn't used any more.		
90.	If a DNS server accepts and uses the wrong details	fron	n a host that has no authority
	giving that information, then this technique is called	d	?
	A. DNS hijacking	C.	DNS spoofing
	B. DNS lookup	D.	All
91.	Cryptography intercepts type of data accessib	ility	?
	A. Authorized	C.	Legitimate
	B. Unauthorized	D.	All
92.	How many keys do Triple DES operates with?		
	A. 2	C.	3
	B. 4	D.	5
93.	Which folder contains Junk emails?		
	A. Inbox	C.	Spam
	B. Unwanted	D.	None
94.	Which of the following algorithm has overcome trip	ple I	DES?
	A. AES	C.	DSA
	B. Blow fish	D.	All
95.	SMTP stands for?		
	A. Simple Mail Text Processing	C.	Simple Mail Transfer Protocol
	B. Secure Mail Transfer Protocol	D.	Secure Message Transfer Process
96.	Which of the following data security principle does	s ch	ecksum verifies?
	A. Integrity	C.	Confidentiality
	B. Authenticity	D.	Repudentiality
97.	ciphers process message a bit or byte	te at	a time when en/decrypting
	A. Block	C.	Substitution
	B. Stream	D.	Transposition
98.	Use Caesar's Cipher to decipher the following		
	FRQILGHQWLDO		
	A. ENCRYPTED	C.	CONFIDENTIAL
	B. CONTINENTAL	D.	ABANDONED
99.	Vigenere cipher is an example of		
	A. Mono-Alphabetic Cipher	B.	Poly-Alphabetic Cipher
			_

C.	Transposition Cipher	D.	Additive Cipher
100.	Which one of the following is the result of v	vige	nere cypher using crypto key
	Plaintext = "cryptography"		
A.	EIWEMCIIYEAM	C.	IEWEMCIIYEAM
B.	EIWEMCIIYENB	D.	EIWEMCIIZAEM
101.	One of the following attack categories and s	secu	rity requirement doesn't match?
A.	Interruption => Attack on availability		
B.	Fabrication => Attack on authenticity		
C.	Modification => Attack on integrity		
D.	Interception => Attack on integrity		
102.	Which one of the following is different from	n the	e others?
A.	Adware	C.	Trojan
B.	Hacktivist	D.	Spyware
103.	Which one of the following cryptographic a	lgor	ithms uses mathematical functions
	her than substitution and permutation?	_	
	RSA		S-DES
	DES		A and B
104.	Which one of the following cryptographic a	lgor	ithms is used to exchange a
	sion key securely?		
	RSA		DES
B.	Diffie-Hellman		Vigenere
105.	What kind of cryptography makes key mana	agen	nent less of a concern?
A.	Asymmetric	C.	Digital signature
B.	Hashing	D.	Symmetric