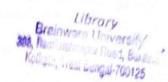




## **BRAINWARE UNIVERSITY**



## Term End Examination 2023 Programme – B.Sc.(ANCS)-Hons-2020 Course Name – Threat Modeling, Risk Assessment and Management Course Code - BNCSD501A (Semester V)

	Marks: 60 ne figure in the margin indicates full marks	Time: 2:30 House. Candidates are required to give their answers in the		
		as far as practicable.]		
		Consider the series of the appearance of the property of the control of the contr		
	Group-A (Multiple Choice Type Question) 1 x		_	
1.	(Multiple Choice Type Question) 1: Choose the correct alternative from the following:		,	
(i)	This protocol or procedure that connects an ever-changing Internet Protocol (IP) address to a fixed physical machine address, also known as a media access control (MAC) address in a local-area network (LAN). Express it.			
	a) MAC c) ARP	b) SNMP d) IPSec.		
(ii)	Aprovides a means by which remote computers communicate securely across a public WAN such as the Internet. Invent.			
	a) NTLM c) HTTP DIGEST	b) VPN d) UDP.		
(iii)	Cite the following technology provide Plan text of any length and counter party to provide Fixed length signature and a session key respectively:			
	a) Symmetric cryptography. c) ◆ Hash.	<ul><li>b) Asymmetric cryptography.</li><li>d) PRNG.</li></ul>		
(iv)	Side Channel attacks are focused on extracting information from thestate of the computer. Identify.			
	a) Physical	b) Logical		
(v)	c) Solid Cite that SPRUCE checklist does not cont	d) None of the above. tain:		
	a) Risk.	b) Choices.		
	c) Evidence.	d) Program.		
(vi)	Choose that FAIR has the following defin	ed steps:		
	a) Identify scenario components and Evaluate loss event frequency.	<ul> <li>b)  Estimate probable loss magnitude and Derive and articulate risk.</li> </ul>		
	c) • All of the above.	d) None of the above.		
(vii)	Developer must implement of Service Threat. Interpret.	to design to minimize DoS risks for Denial		

a) Front Ends	b) Back Ends	
c) • All of the above.	d) None of the above.	
(viii) Discover that rating ◆2 -OK◆ for Measurin	g Threat Models implies:	
a) DFD with ◆assets ◆ (processes, data	b)	
stores, data flows), users, trust boundaries.	At least one threat per a	sset.
<ul> <li>c) Mitigations for threats above a certain risk level Current.</li> </ul>	All of the above.	
(ix) Distinguish the odd item pair for Threat Type	and Mitigation	
a) Spoofing Authentication     c) Elevation of Privilege Authorization	<ul> <li>b) Information Disclosure Av</li> <li>d) None of the above.</li> </ul>	ailability
<ul><li>(x) Analyze that ◆Ping of Death ◆ attack is actu</li></ul>	ally termed as:	
a) TCP/IP DoS Attack.	b) ICMP Attack.	
c) • Both of the above.	d) None of the above.	
<ul> <li>(xi) When one security attack generated by a second influence the program execution of a system hardware rather than targeting the program of Recognize.</li> </ul>	m by indirect effects of the syst	em or its
a) Bot Attack.	b) Repudiation Attack.	
c) Side Channel Attack.	d) None of the above	
(xii) The art of secret writing, invisible inks are an altering the least significant bits of an image to	example of atechnique, o carry a message. Predict.	as is
a) Sybil	b) Steganography	
c) SSN (xiii) State the application laws made of 6	d) SQL Injection	
(xiii) State the application-layer protocol for monitor a LAN or WAN.	oring and managing network dev	vices on
a) SNTP.	b) • SNMP.	
c) TCP. (xiv) Decide the standard documents issued by the	d) None of the above.	
a) Root. c) RFC.	b) Scamicry.	
(xv) Name the common way to represent flows bet process:	d) SDL. ween various participants of a	
a) Swim Lane Diagrams.	b) UML.	
c) Both of the above.	d) None of the above.	
Group	-В	
(Short Answer Type	pe Questions)	3 x 5=15
2. How one Attack Tree can be represented, please of	iscuss.	(3)
3. Write about Type Safe Language with Example.	(3) (3)	
4. Interpret the Variants of Classic Brainstorming with Examples.  OR		
Report about Exchange Online Protection (EOP) Se	rvices with example.	(3)
5. Explain Supply Chain Attackers. Mention the list of OR	Supply Chain Attackers.	(3)
Illustrate about Attacker List? How OWASP address	es it?	(0)
6. Justify Onion Routing.		(3) (3)
OR		(3)
Recognize the causes of Threat Modeling.		(3)

Group-C

(Long Answer Type Questions)

(Long Answer Type Questions)

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7. Suppose, one Financial Institution offers Payment Gateway for Online Banking. State the (5) necessary DFD Diagram for an Ideal Threat Modeling Architecture. 8. Describe STRIDE and it susefulness. (5)Explain ◆FAIR◆ in details. (5) 10. What is Trust Boundaries? Explain it with its usefulness. (5) 11. Evaluate Individual Roles and Responsibilities for threat modelling to one �s (5) Organization. 12. Explain Cloud Tenant Threats and Cloud Provider Threats with suitable examples. (5) OR Classify different types of Cryptographic Primitives. (5)

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