



BRAINWARE UNIVERSITY

Term End Examination 2022 Programme – B.Sc.(ANCS)-Hons-2020 Course Name – Threat Modeling, Risk Assessment and Management Course Code - BNCSD501A (Semester V)

Full Marks: 60

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A (Multiple Choice Type Question) 1 x 15=15 1. Choose the correct alternative from the following: (i) A hacker commits an _____attack by tracking one device into sending messages to the hacker instead of the intended recipient. Speculate the right one. a) DNS Spoofing. b) ARP Spoofing. c) DDoS attack. d) DOS Flood. (ii) Cite which one does not fall among OWASP Top 10 Risks as: a) Injection. b) Cross Site Request Forgery. c) Spoofing. d) None of the above. (iii) Discover the amount of information about the identity of the participants that is revealed in a transaction is measured by a) The Nymity Slider. b) Privacy Impact Assessments. c) Contextual Integrity. d) None of the above. (iv) Advantages of to protects the user from getting bad data from a signed zone by detecting the attack and preventing the user from receiving the tampered data. Recognize. a) DNSSEC. b) SYNC FLOODING. c) IPSec. d) ACL. (v) Online attacks against the login system, is termed as . Identify. a) Threats to Passwords. b) Repudiation Attack. c) All of the above. d) None of the above. (vi) A model of biometric authentication consist authenticators with ______ for authentication measures with response. Discover. a) Hardware b) Software c) Sensors d) None of the above. (vii) Developer must implement ______ to design to minimize DoS risks for Denial of Service Threat. Interpret. a) Front Ends b) Back Ends

(viii) Predict which Logs (Log analysis) must be protected for the following threat:

d) None of the above.

c) All of the above.

(ix)	a) Tampering.c) Information Disclosure.They do not have any real system knowledge, the instructions using different available tools. Analysis		
(x)	a) The undergraduate.c) The Script Kiddie.Conclude that "SYNC Flood" attack is commonly	b) The Expert. d) None of the above. famous for:	
(xi)	a) TCP/IP DoS ATTACK.c) Both of the above.Identify the Causes for Threat Modeling are:	b) ICMP Attack. d) None of the above.	
(xii	a) Find Security Bugs Early.c) Engineer and Deliver Better Products.) To address Denial of Service threat, the Security Identify.	•	ents.
(xiii	a) Networking Flooding.c) Elastic resource.) Consider the subset of buffer overflow in which stack, leading to a change in control flow is tern		
(xiv	a) Stack smashingc) SDL) is the act of denying responsibility	b) SIPRNetd) RFCfor an action. Choose.	
(xv	a) Repudiationc) Authorization) It is one ideal cloud-based filtering service to pr malware and other email threats. Locate.	b) Augthenticationd) None of the above.otect one organization against spam,	
	a) Stepping stones.c) Whiteboard Diagramming.	b) EOP. d) None of the above.	
	Grou (Short Answer Ty		3 x 5=15
	(SHOLL AllSWEL TY	pe Questions)	2 X 2-12
 Illustrate the Threat Applicability for STRIDE-per-interaction scenario. Explain Access Control and various types of Access Control. Discover Information Disclosure Threat and how to mitigate the same. OR			(3) (3)
Judge the different types of application of Elastic Resources. 5. Classify Attack Tree? Explain one Attack Tree for spoofing a process.			
OR Explain one Attack Tree for spoofing a data flow. 6. Express about CAPTCHA.			(3) (3)
٧	OR Vrite about DNS Spoofing with an example.		(3)
	Grou (Long Answer Ty		5 x 6=30
	For the same institution offering such services, pl the Cyber Security Expert to focus the strategy fo	=	s (5)
8. 9. 10.	 8. Discuss Tampering Threats from the perspective of an Attacker. 9. Write about Attack Tree with an example for a real life Threat occurring in Cyber Space. 10. Prepare and correlate Account Recovery Checklist for addressing Accounts and Identity. 11. Explain Account Life Cycles. 		
	OR Explain the attributes for modelling Social Engine Justify Assets. Explain components of Asset-Centi	ering Attacks in Cyber Space.	(5) (5)

OR

Reframe Threat Trees for Spoofing an External Entity (Client/Person/Account).		