BRAINWARE UNIVERSITY

Term End Examination 2023
Programme – B.Sc.(ANCS)-Hons-2020
Course Name – Security Specialist
Course Code - BNCSD502B
(Semester V)

Full Marks : 60   Time : 2:30 Hours

[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) Identify technology is used for analyzing and monitoring traffic in network and information flow.
   a) Cloud access security brokers (CASBs)   b) Managed detection and response (MDR)
   c) Network Security Firewall   d) Network traffic analysis (NTA)

(ii) Name the Compromising confidential information comes under.
   a) Bug   b) Threat
   c) Vulnerability   d) Attack

(iii) Name the Lack of access control policy comes under.
   a) Bug   b) Threat
   c) Vulnerability   d) Attack

(iv) Select the identification number valid for an extended ACL
   a) 1   b) 64
   c) 99   d) 100

(v) Select routing the decision is made by some designated node for centralized
   a) designated center   b) network center
   c) control center   d) network control center

(vi) Indicate the False statement to classify VPN systems
   a) Protocols used for tunnelling the traffic b) Whether VPNs are providing site-to-site or remote access connection
   c) Securing the network from bots and malwares d) Levels of security provided for sending and receiving data privately

(vii) Choose the following is considered to be the address after translation in NAT
   a) Inside local   b) Outside local
   c) Inside global   d) Outside global

(viii) Choose the component of the CiscoSecure ACS
   a) AAA server   b) User diagram
   c) VPN   d) None of the above

(ix) Choose, what does AAA stand for

a) Authority, Authentication and Accounting

b) Authorization, Authentication and Accounting

c) Authority, Authorization and Accounting

d) None of the above

(x) Select what provides an isolated tunnel across a public network for sending and receiving data privately as if the computing devices were directly connected to the private network.

a) Visual Private Network

b) Virtual Protocol Network

c) Virtual Protocol Networking

d) Virtual Private Network

(xi) Select types of VPNs are used for corporate connectivity across companies residing in different geographical location

a) Remote access VPNs

b) Site-to-site VPNs

c) Peer-to-Peer VPNs

d) Country-to-country VPNs

(xii) Select the command statement configures a valid access list?

a) Router(config)#access-list 99 deny tcp host 192.168.2.7 eq 443

b) Router(config)#access-list 189 deny any host 192.168.1.5 eq 22

c) Router(config)#access-list 143 permit tcp host 192.168.8.3 eq 80 any

d) Router(config)#access-list 153 permit any host 192.168.4.5 eq 22

(xiii) You want to apply an access list of 198 to an interface to filter traffic into the interface. Select the command will achieve this

a) Router(config)#ip access-list 198 in fast 0/1

b) Router(config-if)#ip access-list 198 in

c) Router(config-if)#ip access-class 198 in

d) Router(config-if)#ip access-group 198 in

(xiv) Validate the command would you place on interface on a private network

a) ip nat inside

b) ip nat outside

c) ip outside global

d) ip inside local

(xv) Validate the command will show you the summary of the NAT configuration

a) show ip nat translations

b) show ip nat statistics

c) debug ip nat

d) clear ip nat translations *

Group-B
(Short Answer Type Questions)   3 x 5=15

2. What are the meaning of threat, vulnerability, and risk?   (3)
3. Explain Phishing and how to prevent it   (3)
4. Summarize main 3 main security services that IPSec VPN provides   (3)
5. Explain Dynamic NAT with proper diagram   (3)
6. Discuss Radius client   (3)

OR

Summarize the working of Radius Server   (3)

Group-C
(Long Answer Type Questions)   5 x 6=30

7. What are features of Tacacs Server?   (5)
8. What is the difference between TCP & UDP?   (5)
9. Explain Encryption and Decryption with proper example.   (5)
10. What is a Firewall and why is it used?   (5)
11. What is the difference between Transport mode and Tunnel mode in VPN? (5)
12. Explain the different types of NAT?   (5)

OR

Discuss the advantages of implementing NAT.   (5)

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