



# BRAINWARE UNIVERSITY

Term End Examination 2022

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) Select the practice and precautions taken to protect valuable information from unauthorized access, recording, disclosure or destruction.
  - a) Network Security
  - b) Database Security
  - c) Information Security
  - d) Physical Security
- (ii) Select from the options below, which of them is not a threat to information security?
  - a) Disaster
  - b) Eavesdropping
  - c) Information leakage
  - d) Unchanged default password
- (iii) Select from the options below, which of them is not a vulnerability to information security?
  - a) Flood
  - b) without deleting data, disposal of storage media
  - c) unchanged default password
  - d) latest patches and updates not done
- (iv) Select the 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
- (v) Select the type of access list limits the description of traffic by source address.
  - a) Extended
  - b) Named
  - c) Dynamic
  - d) Standard
- (vi) Identify the correct statement about named ACLs.
  - a) They support standard and extended ACLs.
  - b) They are used to filter usernames and passwords for Telnet and SSH.
  - c) They are used to filter Layer 7 traffic.
  - d) They support standard ACLs only.
- (vii) Host is able to ping a web server but it is not able to do HTTP request. Choose the most likely cause the problem
  - a) ACL blocking port 23
  - b) ACL blocking all ports
  - c) ACL blocking port 80
  - d) ACL blocking port 443
- (viii) Choose Port Address Translation is also termed as

- a) NAT Fast  
c) NAT Overload
- b) NAT Static  
d) Overloading Static
- (ix) Choose the following is considered to be the destination host before translation in NAT
- a) Inside local  
c) Inside global
- b) Outside local  
d) Outside global
- (x) Governments hired some highly skilled hackers. Classify these types of hackers are termed as
- a) Special Hackers  
c) Cyber Intelligence Agents
- b) Government Hackers  
d) Nation / State sponsored hackers
- (xi) Someone (from outside) who tests security issues for bugs before launching a system or application, and classify who is not a part of that organization or company are
- a) Black Hat hacker  
c) Blue Hat hacker
- b) External penetration tester  
d) White Hat Hacker
- (xii) Choose the following networks extends a private network across public networks
- a) local area network  
c) enterprise private network
- b) virtual private network  
d) storage area network
- (xiii) Select statement will block traffic for a server of 192.168.1.5 for SSH
- a) Router(config)#access-list 90 deny ip host 192.168.1.5 eq 22  
c) Router(config)#access-list 199 deny tcp host 192.168.1.5 any eq 23
- b) Router(config)#access-list 90 deny tcp any host 192.168.1.5 eq 22  
d) Router(config)#access-list 199 deny tcp any host 192.168.1.5 eq 22
- (xiv) Validate the command would you place on interface connected to the Internet
- a) ip nat inside  
c) ip outside global
- b) ip nat outside  
d) ip inside local
- (xv) Validate the command will show you all the translations active on your router?
- a) show ip nat translations  
c) debug ip nat
- b) show ip nat statistics  
d) clear ip nat translations \*

### Group-B

(Short Answer Type Questions)

3 x 5=15

2. Explain the objective of information security within an organization (3)
3. Explain Symmetric and Asymmetric Encryption (3)
4. Describe IPSec VPN (3)
5. Explain Static NAT with proper diagram (3)
6. Explain the advantages of Tacacs+ over Radius? (3)

OR

- Discuss Radius client (3)

### Group-C

(Long Answer Type Questions)

5 x 6=30

7. Explain private key and public key. (5)
8. What is NAT? (5)
9. What is Access Control List? (5)
10. What is site to site and Remote Access VPN. (5)
11. Discuss the Advantages and Disadvantages of Implementing NAT. (5)
12. What is Tacacs server? (5)

OR

- Discuss the advantages of implementing NAT. (5)

\*\*\*\*\*