



Avinashilingam Institute for Home Science and Higher Education for Women

(Deemed to be University under Category 'A' by MHRD, Estd. u/s 3 of UGC Act 1956)

Re-accredited with 'A+' Grade by NAAC. Recognised by UGC Under Section 12B

Coimbatore - 641 043, Tamil Nadu, India

Bachelor's Degree Examination – June 2021 VI Semester

Class : III UG
Major : Computer Applications

Time : 3 Hours
Max. Marks: 100

18BCAC31 Cyber Security

Part A Choose the Correct Answer

10 x 1 = 10

1. A firewall protects which of the following attacks?
a. Phishing
b. Dumpster diving
c. Denial of Service
d. Shoulder surfing
CO1 K1
2. The process of transforming plain text into unreadable text
a. Decryption
b. Encryption
c. Network Security
d. Information Hiding
CO1 K2
3. In which of the following, a person is constantly followed/chased by another person or group of several peoples?
a. Phishing
b. Stalking
c. Bulling
d. Identity Theft
CO2 K1
4. _____ is a type of software designed to help the user's computer detect viruses and avoid them
a. Malware
b. Adware
c. Antivirus
d. Virus
CO2 K2
5. SQL injection is an attack in which _____ code is inserted into strings that are later passed to an instance of SQL Serve
a. malware
b. redundant
c. clean
d. non malicious
CO3 K1
6. _____ are piece of programs or scripts that allow hackers to take control over any system.
a. Exploits
b. Antivirus
c. Firewall
d. Worms
CO3 K2
7. Rootkit is
a. A simple tool to gain access to the root of the Windows system
b. A Trojan that sends information to an SMB relay
c. An invasive program that affects the system files, including the kernel and libraries
d. A tool to perform a buffer overflow
CO4 K3
8. Which of the following is the type of software that has self-replicating software that causes damage to files and system?
a. Viruses
b. Trojan horses
c. Bots
d. Worms
CO4 K4
9. Something set up on a separate network (or in DMZ) to attract hackers and lure them away from the real network; it logs keystrokes, provides other information about an attacker, and also provides warning that someone is trying to attack your network.
a. proxy server
b. state table
c. Evasion
d. Honey pots
CO5 K2
10. What are the major components of the intrusion detection system?
a. Analysis Engine
b. Event provider
c. Alert Database
d. All of the mentioned
CO5 K4

Part B

5 x 6 = 30

Answer ALL questions

Each answer should not exceed 400 words or two pages

- 11.a. Illustrate about the Packet filtering firewall with a diagram. CO1 K1
(or)
- 11.b. Write about Encryption and brief. CO1 K1
- 12.a. What is Rogue Antivirus? Describe about it. CO2 K2
(or)
- 12.b. How could the Mobile devices be protected from Phishing? CO2 K2
- 13.a. What are Integer overflow vulnerabilities? Brief. CO3 K1
(or)
- 13.b. Write a note on shortest Shellcode. CO3 K3
- 14.a. Illustrate User Mode Rootkit. CO4 K2
(or)
- 14.b. Write a note on Viruses and Worms. CO4 K1
- 15.a. How does Honeypots work? Explain. CO5 K1
(or)
- 15.b. List and explain the types of Automated Malicious Code Analysis Systems. CO5 K4
Explain in detail.

Part C

5 x 12 = 60

Answer ALL questions

Each answer should not exceed 800 words or four pages

- 16.a. What is Windows Messaging? Explain the uses. CO1 K1
(or)
- 16.b. Explain about Information Assurance Fundamentals. CO1 K1
- 17.a. Discuss the idea of Ant forensics tunneling techniques in detail. CO2 K1
(or)
- 17.b. Explain about Botnets. CO2 K2
- 18.a. How do we protect against SQL Injection attacks? CO3 K3
(or)
- 18.b. Discuss about Format String Vulnerabilities. CO3 K2
- 19.a. Explain about DLL Injection. CO4 K2
(or)
- 19.b. Discuss about the Man-in-the-Middle Attacks. CO4 K2
- 20.a. Explain Intrusion Detection Systems in detail. CO5 K4
(or)
- 20.b. Describe Memory forensics in detail. CO5 K4
