CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY
Faculty of Technology and Engineering
Devang Patel of Institute of Advance Technology and Research
CS472 Cyber Security and Cyber Law
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Question Bank
UNIT 1

1	Discuss in the terms of security threats about Virus, Worm, Trojan, Backdoor, Rootkit, Spam, Spyware, Malware and Key-logger.
2	Why Cyberspace is important in today's era?
3	What is Cyber Crime? Explain Cyber stalking and Cybercriminal
4	Explain Security Policy
5	Explain Internet Governance
6	As a security advisor, what are some of the simplest methods you would to safeguard against attacks within a corporate network?

UNIT 2

7	Evaluate the following in the context of peripheral security with respect to ease of implementation, their effectiveness of security, and performance overhead. I. Firewall. II. Virtual private networks. III. Application Gateways .
8	Write a detailed note on the authentication mechanisms
9	What is Cyber Crime? Explain Cyber stalking and Cybercriminal
10	Explain the various risk mitigation methods with suitable examples?
11	What is Penetration Testing? Write a procedure for penetration testing
12	What do you mean by banner grabbing? Discuss the importance of banner grabbing in VA/PT/EH.
13	What do you mean by automated vulnerability assessment tool? Explain its general working in detail with one example.
14	Explain the difference between ping sweeping and port scanning in detail.
15	What do you mean by spoofing? Explain the details of various types of spoofing.
16	Discuss the various modes of Ethical Hacking in detail
17	What is a denial of service attack? Discuss the various types.
18	What is the relationship between threats, vulnerabilities, assets and risk.
19	Explain the five common vulnerabilities that occur in a computer system
20	Explain the Application Gateways or Proxy Firewalls?

21	What is nslookup? Explain in detail about the various information, which can be gathered using nslookup
22	What is social engineering? Explain in detail any two social engineering attack and it's implication on an organization
23	What do you mean by nmap? Explain the nmap scanning process.
24	What do you mean by Metasploit? Explain some of the features and advantages of using a framework like msf
25	What do you mean by DNZ Zone? What are the various types of DNS zones? How DNS Zones are relevant in VA/PT?
26	Discuss the various modes of Ethical Hacking in detail
27	List and explain any 7 scanning options used by Nmap
28	Explain how the Metasploit framework can be used for system hacking.
29	What is Enumeration? Discuss the importance in VA/PT
30	Explain the security Policy
31	Explain Biometrics
32	Explain Cyber Security Safeguards
33	What is Firewall? Explain the types of Firewall

UNIT 3

34	Explain OWASP Top 10
35	Discuss any two-web application vulnerability in detail.
36	Explain Session hijacking, denial-of-service and man-in the- middle attack. How to prevent Session hijacking?
37	What is SQL Injection? How to prevent form SQL injection

UNIT 4

38	Differentiate between intrusion detection system and intrusion prevention system.
39	Give a brief note on the types of Intrusion Detection System
40	What is Anti-Malware software
41	Explain Network based Intrusion detection Systems and Network based Intrusion Prevention Systems
42	Give a note on Host based Intrusion prevention Systems

UNIT 5

43	What is cryptography? Briefly explain the model of Asymmetric Cryptosystem

44	Explain the Role of digital signature in E-Commerce security system
45	What is PGP & GPG? Describe Dual –Key encryption & Its risks
46	Explain VPN Security Protocols
47	What is Security at Transport Layer- SSL and TLS?

UNIT 6

48	Write the background of Information Technology Act, 2000 along with its salient
49	What do you mean by Cyber laws? Explain jurisprudence of Indian Cyber Law
50	Explain different Section of Cyber Law

UNIT 7

51	Explain the different types of Acquisition methodologies followed in Cyber Forensics
52	Explain the various steps involved in Cyber Forensics
53	Discuss the difference between Live Analysis and Dead Analysis
54	Describe the steps involved in cyber forensics
55	Explain incident response methodology.
56	Discuss Email based crime investigation scenario.
57	Explain the Steps should be followed in Crime Scene Investigation
58	What is Malware? Write types of malware. How antivirus identifies the malware
59	Explain "Chain of Custody".
60	Difference between Imaging and Cloning.