

Unit 4

Cyber Security Initiatives in India

1. Which agency is the nodal authority for cyber security in India?

- a) IB
- b) CBI
- c) CERT-In
- d) NITI Aayog

Answer: c) CERT-In

2. What does CERT-In stand for?

- a) Central Emergency Response Team – India
- b) Cyber Emergency Rescue Team – India
- c) Computer Emergency Response Team – India
- d) Cybercrime Emergency Rapid Team – India

Answer: c) Computer Emergency Response Team – India

3. Which Indian law governs cyber crimes and electronic commerce?

- a) Cyber Law Act 2005
- b) Information Technology Act, 2000
- c) E-Commerce Act 1999
- d) Digital India Act 2022

Answer: b) Information Technology Act, 2000

4. Which of the following is a flagship programme to promote digital infrastructure and services in India?

- a) Start-up India
- b) Digital India
- c) Skill India
- d) Make in India

Answer: b) Digital India

5. The National Cyber Security Policy was launched in:

- a) 2000

- b) 2005
- c) 2013
- d) 2020

Answer: c) 2013

6. The purpose of the National Cyber Security Policy, 2013 is to:

- a) Ban social media
- b) Promote antivirus products
- c) Protect public and private IT infrastructure
- d) Increase bandwidth

Answer: c) Protect public and private IT infrastructure

7. Which Indian ministry handles cyber laws and cyber security policies?

- a) Ministry of Defence
- b) Ministry of External Affairs
- c) Ministry of Electronics and Information Technology (MeitY)
- d) Ministry of Home Affairs

Answer: c) Ministry of Electronics and Information Technology (MeitY)

8. Which of the following is a cyber security awareness initiative by the Indian government?

- a) CyberYatra
- b) CyberSafe India
- c) I4C
- d) Cyber Swachhta Kendra

Answer: d) Cyber Swachhta Kendra

9. What is the function of Cyber Swachhta Kendra?

- a) Promote yoga online
- b) Block all internet traffic
- c) Provide tools to clean malware-infected systems
- d) Issue driving licenses

Answer: c) Provide tools to clean malware-infected systems

10. What is "I4C" in the context of Indian Cyber Security?

- a) Indian Centre for Cyber Crimes Control

- b) Indian Cyber Crime Coordination Centre
- c) International Cyber Crime Council
- d) Indian Committee for Cyber Safety

Answer: b) Indian Cyber Crime Coordination Centre

11. National Critical Information Infrastructure Protection Centre (NCIIPC) protects:

- a) Wi-Fi networks
- b) Social media apps
- c) Strategic and critical sectors
- d) Gaming data

Answer: c) Strategic and critical sectors

12. The “Cyber Surakshit Bharat” initiative is aimed at:

- a) Giving digital loans
- b) Promoting digital games
- c) Training government officials in cyber security
- d) Selling antivirus

Answer: c) Training government officials in cyber security

13. Which of the following apps is launched by the Indian government for cyber crime reporting?

- a) CrimeWatch
- b) CyberSafe
- c) DigiCop
- d) Cyber Crime Reporting Portal

Answer: d) Cyber Crime Reporting Portal

14. Which Indian organisation works on national-level cyber exercises and incident response?

- a) ISRO
- b) DRDO
- c) CERT-In
- d) UIDAI

Answer: c) CERT-In

15. What is the full form of NCIIPC?

- a) National Cyber Info and Investigation Protection Cell
- b) National Critical Information Infrastructure Protection Centre
- c) National Cyber Institute for Internet Protection Cell
- d) National Cyber Infrastructure and Protection Commission

Answer: b) National Critical Information Infrastructure Protection Centre

16. The Information Technology Act, 2000 was amended in:

- a) 2002
- b) 2005
- c) 2008
- d) 2011

Answer: c) 2008

17. Under IT Act 2000, who is the adjudicating officer for cyber offences?

- a) District Magistrate
- b) Chief Justice
- c) Controller of Certifying Authorities
- d) Designated IT Secretary

Answer: d) Designated IT Secretary

18. “National Cyber Coordination Centre (NCCC)” was set up for:

- a) Social media tracking
- b) Tracking viruses only
- c) Threat intelligence and coordination
- d) Selling cyber insurance

Answer: c) Threat intelligence and coordination

19. Who launched Cyber Surakshit Bharat initiative?

- a) Ministry of Education
- b) MeitY + NeGD
- c) RBI
- d) CBI

Answer: b) MeitY + NeGD

20. The Digital India Programme was launched in:

- a) 2005
- b) 2010
- c) 2012
- d) 2015

Answer: d) 2015

Cyber Security Incident Handling – MCQs

1. What is a security incident?

- a) Scheduled system update
- b) Any event that threatens data integrity, confidentiality, or availability
- c) Installing antivirus
- d) Changing user password

Answer: b) Any event that threatens data integrity, confidentiality, or availability

2. Which of the following is the first step in incident handling?

- a) Eradication
- b) Containment
- c) Preparation
- d) Recovery

Answer: c) Preparation

3. What is the main goal of incident handling?

- a) Improve RAM performance
- b) Build new software
- c) Detect, respond, and recover from security incidents
- d) Format hard drives

Answer: c) Detect, respond, and recover from security incidents

4. What comes after detection in the incident response process?

- a) Eradication
- b) Recovery
- c) Containment
- d) Preparation

Answer: c) Containment

5. The phase where normal operations are restored is:

- a) Containment
- b) Recovery
- c) Eradication
- d) Documentation

Answer: b) Recovery

6. Which team handles cyber security incidents in large organizations?

- a) IT department
- b) Cyber Crime Police
- c) CSIRT (Computer Security Incident Response Team)
- d) HR department

Answer: c) CSIRT (Computer Security Incident Response Team)

7. What is containment in incident response?

- a) Deleting files
 - b) Isolating affected systems to prevent damage
 - c) Backing up data
 - d) Changing system design
- Answer: b) Isolating affected systems to prevent damage**
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8. What is the last phase of the incident response process?

- a) Recovery
- b) Preparation
- c) Lessons Learned
- d) Scanning

Answer: c) Lessons Learned

9. Incident documentation is important for:

- a) Marketing
- b) Avoiding detection
- c) Legal and learning purposes
- d) Adding new users

Answer: c) Legal and learning purposes

10. What does 'eradication' mean in incident response?

- a) Removing the threat or malware from the system
 - b) Updating user profile
 - c) Blocking all websites
 - d) Deleting antivirus
- Answer: a)** Removing the threat or malware from the system

Cyber Security Assurance

11. What is cyber security assurance?

- a) Speed testing tool
 - b) Providing guarantees about system security
 - c) Social media login system
 - d) Antivirus scanning
- Answer: b)** Providing guarantees about system security

12. Which of the following is NOT part of cyber assurance?

- a) Risk assessment
 - b) Policy enforcement
 - c) Random software coding
 - d) Compliance verification
- Answer: c)** Random software coding

13. Which standard is commonly used for information security assurance?

- a) ISO 9001
 - b) ISO 27001
 - c) ISO 14001
 - d) ISO 5001
- Answer: b)** ISO 27001

14. Which of the following helps in providing cyber assurance?

- a) Penetration Testing
 - b) Ignoring threats
 - c) Removing passwords
 - d) Gaming apps
- Answer: a)** Penetration Testing
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15. Assurance ensures:

- a) There will never be a cyber attack
- b) That risks are understood and controls are in place
- c) That systems run faster
- d) That systems are always online

Answer: b) That risks are understood and controls are in place

16. A security audit is part of:

- a) Encryption
- b) Cyber assurance process
- c) Password guessing
- d) Software installation

Answer: b) Cyber assurance process

17. Assurance is necessary in systems that handle:

- a) Only entertainment data
- b) Confidential, financial, or government information
- c) Wallpapers
- d) Online advertisements

Answer: b) Confidential, financial, or government information

18. Which of the following increases trust in a system's security?

- a) Assurance documentation
- b) Pirated software
- c) Social media integration
- d) Internet download speed

Answer: a) Assurance documentation

19. Cyber assurance activities are mainly:

- a) Legal actions
- b) Preventive and proactive
- c) Reactive only
- d) Physical security

Answer: b) Preventive and proactive

20. What is the goal of cyber assurance testing?

- a) Increase RAM
- b) Make apps look better
- c) Validate that security controls are effective
- d) Disable updates

Answer: c) Validate that security controls are effective

21. What does compliance mean in cyber assurance?

- a) Ignoring threats
- b) Meeting security rules, standards, and regulations
- c) Writing logs
- d) Banning emails

Answer: b) Meeting security rules, standards, and regulations

22. Which organization in India promotes assurance in digital services?

- a) TRAI
- b) UIDAI
- c) STQC (Standardisation Testing and Quality Certification)
- d) NSDL

Answer: c) STQC (Standardisation Testing and Quality Certification)

23. Which cyber assurance process includes risk identification and mitigation?

- a) Gaming module
- b) Risk management
- c) Software licensing
- d) Video conferencing

Answer: b) Risk management

24. A well-assured system is:

- a) Fast but unprotected
- b) Reliable and secure
- c) Without encryption
- d) Without firewalls

Answer: b) Reliable and secure

25. A major benefit of cyber assurance is:

- a) Better graphics
- b) Greater user trust and system resilience
- c) Low bandwidth
- d) Ad-free websites

Answer: b) Greater user trust and system resilience

Information Technology (IT) Act, 2000

1. The Information Technology Act was enacted in India in the year:

- a) 1999
- b) 2000
- c) 2002
- d) 2005

Answer: b) 2000

2. The IT Act 2000 mainly deals with:

- a) Banking laws
- b) Property rights
- c) Legal recognition of electronic transactions and cybercrime penalties
- d) Labour law

Answer: c) Legal recognition of electronic transactions and cybercrime penalties

3. The IT Act came into force on:

- a) January 1, 2000
- b) October 17, 2000
- c) August 15, 2000
- d) December 31, 2000

Answer: b) October 17, 2000

4. The IT Act was amended in the year:

- a) 2005
- b) 2008
- c) 2010
- d) 2013

Answer: b) 2008

5. Which section of the IT Act deals with hacking and data theft?

- a) Section 43
- b) Section 66
- c) Section 72
- d) Section 4

Answer: b) Section 66

6. Section 43 of the IT Act provides penalties for:

- a) Publishing obscene material
- b) Unauthorized access and damage to computer systems
- c) Phishing
- d) Cyber terrorism

Answer: b) Unauthorized access and damage to computer systems

7. Which section of the IT Act deals with cyber terrorism?

- a) Section 65
- b) Section 67
- c) Section 66F
- d) Section 72

Answer: c) Section 66F

8. Section 67 of the IT Act deals with:

- a) Online banking fraud
- b) Publishing or transmitting obscene content in electronic form
- c) Cyber bullying
- d) Data theft

Answer: b) Publishing or transmitting obscene content in electronic form

9. Who is the adjudicating officer under the IT Act?

- a) District Magistrate
- b) Police Commissioner
- c) Appointed IT Secretary (not below the rank of Director)
- d) Cyber Cafe Owner

Answer: c) Appointed IT Secretary (not below the rank of Director)

10. The IT Act legally recognizes:

- a) Print documents only
- b) Voice messages only
- c) Electronic records and digital signatures
- d) SMS only

Answer: c) Electronic records and digital signatures

11. The IT Act applies to:

- a) India only
- b) Outside India only
- c) India and abroad if the crime involves a computer in India
- d) UN Members only

Answer: c) India and abroad if the crime involves a computer in India

12. Under which section is identity theft and cheating by personation using computer resource covered?

- a) Section 66C and 66D
- b) Section 43A
- c) Section 70
- d) Section 69

Answer: a) Section 66C and 66D

13. Which authority issues digital certificates in India?

- a) UIDAI
- b) SEBI
- c) Controller of Certifying Authorities (CCA)
- d) TRAI

Answer: c) Controller of Certifying Authorities (CCA)

14. What is the punishment for cyber terrorism under Section 66F?

- a) 6 months imprisonment
- b) Life imprisonment
- c) Fine only
- d) No punishment

Answer: b) Life imprisonment

15. Section 72 of the IT Act penalizes:

- a) Online trolling
- b) Breach of confidentiality and privacy
- c) File sharing
- d) SMS forwarding

Answer: b) Breach of confidentiality and privacy

16. Which act supports e-governance and electronic contracts legally?

- a) RTI Act
- b) IT Act 2000
- c) Income Tax Act
- d) Digital Security Act

Answer: b) IT Act 2000

17. The maximum penalty for damage to computer, system, or data under Section 43 is:

- a) ₹1 lakh
- b) ₹5 lakh
- c) ₹10 lakh
- d) ₹1 crore

Answer: d) ₹1 crore

18. Which of the following is NOT covered under IT Act?

- a) Digital signatures
- b) Cyber terrorism
- c) Property disputes
- d) Obscene content on the internet

Answer: c) Property disputes

19. Section 69 of the IT Act gives power to:

- a) Register domain names
- b) Intercept, monitor, or decrypt information for security reasons
- c) Launch websites
- d) Export software

Answer: b) Intercept, monitor, or decrypt information for security reasons

20. The primary purpose of IT Act is to:

- a) Promote tourism
- b) Control inflation
- c) Provide legal framework for e-transactions and cybercrime laws
- d) Improve entertainment industry

Answer: c) Provide legal framework for e-transactions and cybercrime laws

Hackers, Attackers & Countermeasures

Hackers & Attackers

1. Who is a hacker in cyber security?

- a) Someone who plays online games
- b) A person who illegally accesses computer systems
- c) A software developer
- d) A network engineer

Answer: b) A person who illegally accesses computer systems

2. Which type of hacker works with good intentions and helps improve security?

- a) Black Hat Hacker
- b) Grey Hat Hacker
- c) White Hat Hacker
- d) Red Hat Hacker

Answer: c) White Hat Hacker

3. Which type of hacker breaks into systems for malicious purposes?

- a) White Hat
- b) Black Hat
- c) Red Hat
- d) Blue Hat

Answer: b) Black Hat

4. A hacker who breaks into a system without malicious intent but without permission is a:

- a) Red Hat
- b) Grey Hat
- c) White Hat
- d) Cyber Cop

Answer: b) Grey Hat

5. Blue Hat Hackers are usually associated with:

- a) Cyber warfare
- b) Revenge-based hacking without deep technical knowledge
- c) Ethical hacking exams
- d) Network testing

Answer: b) Revenge-based hacking without deep technical knowledge

6. Red Hat Hackers are known for:

- a) Passive defense
- b) Fighting back against Black Hats
- c) Teaching hacking
- d) Writing malware

Answer: b) Fighting back against Black Hats

Common Cyber Attacks

7. Which of the following is a common form of cyber attack?

- a) Data backup
- b) Phishing
- c) App download
- d) Captcha solving

Answer: b) Phishing

8. A DoS (Denial of Service) attack aims to:

- a) Secure a system
- b) Backup data
- c) Overwhelm a system to make it unavailable
- d) Speed up software

Answer: c) Overwhelm a system to make it unavailable

9. What is a Trojan Horse?

- a) A fake app that entertains
- b) Malware disguised as legitimate software
- c) Virus sent via USB
- d) Software used for passwords

Answer: b) Malware disguised as legitimate software

10. SQL Injection targets which component?

- a) Operating system
- b) Database
- c) Network
- d) BIOS

Answer: b) Database

11. Keyloggers are used to:

- a) Increase typing speed
- b) Record user keystrokes secretly
- c) Speed up RAM
- d) Clean hard disks

Answer: b) Record user keystrokes secretly

12. What is sniffing in cyber security?

- a) Cleaning hard drives
- b) Capturing network traffic to steal data
- c) Creating fake profiles
- d) Compressing files

Answer: b) Capturing network traffic to steal data

Countermeasures & Prevention Techniques

13. What is the main goal of countermeasures in cybersecurity?

- a) To attack hackers
- b) To reduce the cost of hacking
- c) To prevent or minimize the impact of cyber attacks
- d) To delete all data

Answer: c) To prevent or minimize the impact of cyber attacks

14. Which of the following is NOT a cyber countermeasure?

- a) Encryption
- b) Installing malware
- c) Firewall
- d) Antivirus software

Answer: b) Installing malware

15. What is the best way to prevent phishing attacks?

- a) Open all emails
- b) Click on all links
- c) Verify sender and avoid suspicious links
- d) Forward emails to everyone

Answer: c) Verify sender and avoid suspicious links

16. Which technique helps protect data during transmission?

- a) Formatting
- b) Encryption
- c) Copying
- d) Rebooting

Answer: b) Encryption

17. What should you use to protect a network from unauthorized access?

- a) Printer
- b) Firewall
- c) Scanner
- d) Keyboard

Answer: b) Firewall

18. Which of these is a strong password example?

- a) 12345
- b) password
- c) Qw!9#Xz\$T7
- d) name123

Answer: c) Qw!9#Xz\$T7

19. Two-Factor Authentication (2FA) increases:

- a) System speed
- b) Internet bill
- c) Account security
- d) Website ads

Answer: c) Account security

20. Penetration testing is used to:

- a) Enter social media accounts
- b) Check vulnerabilities in systems
- c) Create backups
- d) Speed up computers

Answer: b) Check vulnerabilities in systems

Web Application Security

1. What is the purpose of Web Application Security?

- a) To develop websites faster
- b) To protect users from spam
- c) To secure web applications from threats and vulnerabilities
- d) To create attractive designs

Answer: c) To secure web applications from threats and vulnerabilities

2. Which of the following is a web application vulnerability?

- a) SQL Injection
- b) Disk formatting
- c) Disk fragmentation
- d) Internet sharing

Answer: a) SQL Injection

3. Which organization releases the OWASP Top 10 vulnerabilities list?

- a) Google
- b) Microsoft
- c) OWASP Foundation
- d) W3C

Answer: c) OWASP Foundation

4. What is the OWASP Top 10?

- a) Top 10 websites
- b) Top 10 cyber laws
- c) Top 10 security risks in web applications
- d) Top 10 Google tools

Answer: c) Top 10 security risks in web applications

5. A web application is vulnerable if:

- a) It is mobile responsive
- b) It stores user data securely
- c) It doesn't validate user input
- d) It uses modern UI

Answer: c) It doesn't validate user input

6. What is SQL Injection?

- a) A database design method
- b) Injecting JavaScript into web apps
- c) Inserting malicious SQL queries into user input fields
- d) A type of encryption

Answer: c) Inserting malicious SQL queries into user input fields

7. Cross-Site Scripting (XSS) is used to:

- a) Hack emails
- b) Inject malicious scripts into web pages
- c) Scan for viruses
- d) Increase website traffic

Answer: b) Inject malicious scripts into web pages

8. CSRF stands for:

- a) Cyber Security Report File
- b) Central Secure Response Force
- c) Cross Site Request Forgery
- d) Client Script Runtime Framework

Answer: c) Cross Site Request Forgery

9. Session Hijacking is:

- a) Protecting user sessions
- b) Tracking cookies
- c) Stealing valid session IDs to impersonate users
- d) Refreshing websites

Answer: c) Stealing valid session IDs to impersonate users

10. Which attack allows attackers to access unauthorized files via the URL?

- a) SQL Injection
- b) Broken Authentication
- c) Directory Traversal
- d) Phishing

Answer: c) Directory Traversal

11. What is Broken Authentication?

- a) A website login page
- b) Misuse or exposure of authentication credentials
- c) Forgetting a password
- d) Changing username

Answer: b) Misuse or exposure of authentication credentials

12. What is Security Misconfiguration?

- a) Fast website setup
- b) Improper setup of security headers, servers, or permissions
- c) Installing firewalls
- d) Missing images

Answer: b) Improper setup of security headers, servers, or permissions

13. Insecure Deserialization refers to:

- a) Slow loading of websites
- b) Converting data into images
- c) Executing malicious code by tampering with serialized data
- d) File transfer

Answer: c) Executing malicious code by tampering with serialized data

14. Which one is NOT a web application attack?

- a) XSS
- b) DoS
- c) CSRF
- d) Format Conversion

Answer: d) Format Conversion

1. What does digital infrastructure security aim to protect?

- a) Roads and bridges
- b) Software games
- c) Network, data centers, servers, and cloud environments
- d) Social events

Answer: c) Network, data centers, servers, and cloud environments

2. Which of the following is part of digital infrastructure?

- a) Internet cables
- b) Cloud storage
- c) Data centers
- d) All of the above

Answer: d) All of the above

3. What is a major threat to digital infrastructure?

- a) Rainfall
- b) Power surge
- c) DDoS (Distributed Denial of Service) attack
- d) Loud noise

Answer: c) DDoS (Distributed Denial of Service) attack

4. Which of the following protects digital infrastructure from unauthorized access?

- a) Firewall
- b) Mouse
- c) Monitor
- d) Keyboard

Answer: a) Firewall

5. A VPN (Virtual Private Network) helps by:

- a) Watching videos faster
- b) Encrypting internet connections
- c) Increasing ad views
- d) Deleting viruses

Answer: b) Encrypting internet connections

6. What does a Data Center primarily store?

- a) Videos
- b) Hardware components
- c) Digital data and applications
- d) Online tickets

Answer: c) Digital data and applications

7. Which government initiative supports digital infrastructure in India?

- a) Make in India
- b) Digital India
- c) Skill India
- d) Cyber India

Answer: b) Digital India

8. What is the purpose of Network Access Control (NAC)?

- a) To format hard disks
- b) To restrict device access to the network
- c) To improve UI
- d) To track file downloads

Answer: b) To restrict device access to the network

9. Cloud infrastructure is secured using:

- a) Public WiFi
- b) Shared passwords
- c) Access control, encryption, and monitoring
- d) Loud alarms

Answer: c) Access control, encryption, and monitoring

10. What is physical security in digital infrastructure?

- a) Encrypting data
- b) Installing anti-virus
- c) Protecting hardware from theft and damage
- d) Securing websites

Answer: c) Protecting hardware from theft and damage

Defensive Programming

11. What is Defensive Programming?

- a) Writing stylish code
- b) Writing code that avoids syntax errors
- c) Writing secure code to anticipate and handle unexpected inputs or behavior
- d) Compressing code

Answer: c) Writing secure code to anticipate and handle unexpected inputs or behavior

12. Defensive programming is mainly used to:

- a) Increase performance only
- b) Avoid compiler warnings
- c) Improve code reliability and security
- d) Hide errors

Answer: c) Improve code reliability and security

13. Which of the following is a key principle of defensive programming?

- a) Trust all inputs
- b) Ignore exceptions
- c) Validate input data
- d) Write code once

Answer: c) Validate input data

14. Input validation is essential because:

- a) It saves memory
- b) It prevents unauthorized or dangerous operations
- c) It removes white spaces
- d) It allows free access

Answer: b) It prevents unauthorized or dangerous operations

15. What should be used to handle unexpected input or program failure?

- a) Alerts
- b) Exception handling
- c) Copy-paste code
- d) Formatting

Answer: b) Exception handling

16. Which of the following practices enhances defensive programming?

- a) Hardcoding passwords
- b) Avoiding error messages
- c) Using assertions
- d) Skipping comments

Answer: c) Using assertions

17. Boundary checking helps in:

- a) Shortening programs
- b) Preventing buffer overflows
- c) Reducing graphics
- d) Enhancing colors

Answer: b) Preventing buffer overflows

18. Which language feature helps in handling errors gracefully?

- a) Loops
- b) Try-Catch blocks
- c) Comments
- d) Variables

Answer: b) Try-Catch blocks

19. A secure way to handle user credentials in code is:

- a) Use plain text files
- b) Use environment variables or secure vaults
- c) Write them on screen
- d) Store in Excel files

Answer: b) Use environment variables or secure vaults

20. Defensive programming improves:

- a) Code readability
- b) Code security and fault tolerance
- c) Video quality
- d) Output printing

Answer: b) Code security and fault tolerance

21. Why is "never trust user input" a common rule in defensive programming?

- a) Users always type in caps
- b) Input can be manipulated to exploit vulnerabilities
- c) It helps design faster websites
- d) Reduces storage

Answer: b) Input can be manipulated to exploit vulnerabilities

22. Logging errors during program execution is useful for:

- a) Reducing code size
- b) Watching logs
- c) Debugging and auditing
- d) Deleting old code

Answer: c) Debugging and auditing

23. Which of the following is NOT a defensive programming technique?

- a) Input validation
- b) Output encoding
- c) Ignoring errors
- d) Error logging

Answer: c) Ignoring errors

24. Which programming style is most secure?

- a) Defensive
- b) Aggressive
- c) Lazy
- d) Obfuscated

Answer: a) Defensive

25. Defensive programming is best described as:

- a) Writing complex code
- b) Coding with assumptions
- c) Coding with care to protect against misuse
- d) Coding without testing

Answer: c) Coding with care to protect against misuse

Information Destroying and Recovery Tools

1. What is the main goal of information destroying tools?

- a) Recover deleted files
- b) Compress files
- c) Permanently delete data beyond recovery
- d) Hide files in folders

Answer: c) Permanently delete data beyond recovery

2. Which of the following tools is used for secure file deletion?

- a) WinRAR
- b) CCleaner
- c) Eraser
- d) Notepad

Answer: c) Eraser

3. Which process is used by data destroying tools to ensure data cannot be recovered?

- a) Formatting
- b) Data masking
- c) Data overwriting (wiping)
- d) Compression

Answer: c) Data overwriting (wiping)

4. Which of these is a command-line tool used in Linux to destroy data?

- a) rm
- b) mv
- c) shred
- d) grep

Answer: c) shred

5. A disk wipe tool:

- a) Makes backup copies
- b) Destroys physical disk
- c) Overwrites entire disk with random data
- d) Resets passwords

Answer: c) Overwrites entire disk with random data

6. Formatting a hard disk:

- a) Always deletes data permanently
- b) Makes data unrecoverable
- c) Can sometimes be recovered
- d) Sends data to Recycle Bin

Answer: c) Can sometimes be recovered

7. Which method is considered safest for destroying confidential information?

- a) Delete button
- b) Shift+Delete
- c) Overwriting with data wiping tools
- d) Compress and move

Answer: c) Overwriting with data wiping tools

8. Physical destruction of storage devices includes:

- a) Data encryption
- b) Melting, shredding, or degaussing
- c) Uploading to cloud
- d) Disabling keyboard

Answer: b) Melting, shredding, or degaussing

Data Recovery Tools

9. Which of the following tools can be used to recover deleted files?

- a) Eraser
- b) Recuva
- c) Disk Destroyer
- d) Format Tool

Answer: b) Recuva

10. Data recovery is successful when:

- a) File is in Recycle Bin only
- b) Data is overwritten
- c) Sectors are intact and not overwritten
- d) Disk is physically destroyed

Answer: c) Sectors are intact and not overwritten

11. Which tool is known for deep scan file recovery?

- a) CCleaner
- b) VLC
- c) EaseUS Data Recovery
- d) Snipping Tool

Answer: c) EaseUS Data Recovery

12. Data recovery software works by:

- a) Creating new files
- b) Reading index of lost or deleted data sectors
- c) Encrypting files
- d) Locking disk

Answer: b) Reading index of lost or deleted data sectors

13. Which of these is a free file recovery tool?

- a) Notepad++
- b) Recuva
- c) BitLocker
- d) TeamViewer

Answer: b) Recuva

14. Which tool is best for recovering data from formatted drives?

- a) Paint
- b) MS Word
- c) Stellar Data Recovery
- d) Control Panel

Answer: c) Stellar Data Recovery

15. Recovery is NOT possible when:

- a) File is renamed
- b) Disk is formatted once
- c) Disk has been wiped using secure erase tools
- d) File is moved to another folder

Answer: c) Disk has been wiped using secure erase tools

Destroying Sensitive Information

1. What does destroying sensitive information mean in cyber security?

- a) Archiving the data
- b) Making data unreadable and unrecoverable
- c) Sending data to cloud
- d) Locking the folder

Answer: b) Making data unreadable and unrecoverable

2. Which of the following methods is most secure for destroying sensitive digital data?

- a) Deleting the file
- b) Moving to recycle bin
- c) Overwriting using a data wiping tool
- d) Renaming the file

Answer: c) Overwriting using a data wiping tool

3. Which command-line tool in Linux is used for securely deleting files?

- a) ls
- b) rm
- c) shred
- d) sudo

Answer: c) shred

4. What does data wiping involve?

- a) Encrypting files
- b) Replacing file names
- c) Overwriting data with random bits multiple times
- d) Formatting file extensions

Answer: c) Overwriting data with random bits multiple times

5. Which of the following tools is widely used for securely erasing data on Windows?

- a) Notepad
- b) Eraser
- c) WinRAR
- d) Paint

Answer: b) Eraser

6. Deleting files using Shift+Delete:

- a) Permanently destroys files
- b) Sends them to backup
- c) Removes from Recycle Bin but recoverable
- d) Encrypts the file

Answer: c) Removes from Recycle Bin but recoverable

7. What is the purpose of using disk wipe software?

- a) Improve disk speed
- b) Securely erase entire hard disk
- c) Create new partitions
- d) Recover deleted files

Answer: b) Securely erase entire hard disk

8. Which technique ensures sensitive data cannot be recovered from a storage device?

- a) Formatting
- b) Compression
- c) Secure erasure
- d) Defragmentation

Answer: c) Secure erasure

9. What is DBAN used for?

- a) Backup software
- b) Antivirus software
- c) Boot and Nuke disk wiping
- d) Password generator

Answer: c) Boot and Nuke disk wiping

10. What is degaussing?

- a) Cooling hard drives
- b) Magnetically erasing data from magnetic storage devices
- c) Encrypting USB drives
- d) Compressing SSDs

Answer: b) Magnetically erasing data from magnetic storage devices

11. Which of the following is not a secure method of destroying sensitive information?

- a) Data overwriting
- b) Physical destruction
- c) Deleting files only
- d) Degaussing

Answer: c) Deleting files only

12. What is physical destruction of sensitive data?

- a) Deleting files
- b) Formatting disk
- c) Shredding or crushing storage devices
- d) Backing up data

Answer: c) Shredding or crushing storage devices

13. Which of the following methods is suitable for destroying printed sensitive information?

- a) Crumpling
- b) Shredding
- c) Filing
- d) Folding

Answer: b) Shredding

14. Why is formatting not considered a fully secure way to destroy data?

- a) It slows the computer
- b) It doesn't affect the OS
- c) The data can still be recovered with tools
- d) It is expensive

Answer: c) The data can still be recovered with tools

15. For highly classified data, which combination is best for destruction?

- a) Move to trash + rename
- b) Delete + Reboot
- c) Secure wipe + Physical destruction
- d) Format + Print

Answer: c) Secure wipe + Physical destruction