

Cyber Security (PEC-IT702F) – Important Questions & Key Topics

■ Top 10 Most Important Questions (with Hints)

- 1. Explain the phases of Cyber Forensics investigation.
Hint: Identification, Preservation, Collection, Examination, Analysis, Presentation.
- 2. Discuss the Ethical Hacking life cycle in detail.
Hint: Reconnaissance, Scanning, Gaining Access, Maintaining Access, Covering Tracks.
- 3. What are different types of hackers and cyber crimes?
Hint: White/Black/Grey Hat, Cyber terrorism, Cyber stalking, Phishing, Fraud.
- 4. Define and explain the CIA Triad.
Hint: Confidentiality, Integrity, Availability – core pillars of security.
- 5. Explain Vulnerability Assessment and Penetration Testing (VAPT).
Hint: Identify weaknesses, exploit them safely, report findings.
- 6. Discuss Social Engineering attacks and prevention measures.
Hint: Phishing, Pretexting, Baiting, Tailgating; use awareness and training.
- 7. What are malware threats? Explain types of malicious software.
Hint: Virus, Worms, Trojan horse, Ransomware, Spyware.
- 8. Write short notes on IT Act 2000 and Cyber Ethics.
Hint: Legal framework for e-governance, cybercrime prevention, and digital signatures.
- 9. Explain Information Security Management and ISO 27001.
Hint: Framework for managing information risks via ISMS policies and controls.
- 10. Describe the Computer Forensics process and tools.
Hint: Tools – EnCase, FTK, Autopsy; Process – Acquisition, Analysis, Reporting.

■ Study Priority (Focus Order)

- 1■■■ Unit 4 – Cyber Forensics & Auditing (Highest marks weightage)
- 2■■■ Unit 3 – Ethical Hacking & Security Engineering
- 3■■■ Unit 2 – Hackers and Cyber Crimes
- 4■■■ Unit 5 – Cyber Ethics & Laws
- 5■■■ Unit 1 – Introduction to Cyber Security

■ Quick 4-Week Revision Plan

- Week 1 – Unit 4: Forensics + Audit + ISO concepts
- Week 2 – Unit 3: Ethical Hacking phases + Security engineering
- Week 3 – Unit 2 + Unit 1: Malware + Hacker types + CIA Triad
- Week 4 – Unit 5 + Full Revision: IT Act + Cyber laws + Recap all