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Total Pages: 2

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CYBER SECURITY

Paper-OE-CS-402A

Time Allowed: 3 Hours

[Maximum Marks: 75

Note: Attempt five questions in all, selecting at least one question from each Unit. All questions carry equal marks. - bound about 1/ north

UNIT-I

- 1. What is Cyber Extortion? Briefly discuss Sophisticated (a) Cyber Extortion techniques. Write best practices to reduce the risk of Cyber Extortion. 8
 - (b) What is the Scope and Nature of Cyber-crimes? Explain different types of Cyber Crimes.
- Discuss the following:
 - Explore the strength of Data Encryption Standard (DES). Differentiate between Differential and Linear Crypt Analysis of DES.
 - Discuss the principles of Block Cipher. Discuss several (b) operations of Block Cipher.

- (a) Explain Pretty Good Privacy (PGP) & S/MIME. 3.
 - What is Secure Hash Algorithm (SHA)? Why SHA algorithm is used for?

- 4. (a) Write about Digital Signature Standards (DSS).

 Discuss proof of digital signature algorithm. 8
 - (b) Differentiate between Kerberos and X.509. Discuss the main components of Kerberos. How does it work?

UNIT-III

- 5. (a) Differentiate between Active and Passive Attacks.
 Discuss the different ways to Prevent Cyber
 Crime.
 - (b) Explain about Network based Intrusion detection system.
- 6. (a) Explain Secure Electronic Transaction (SET) 8
 - (b) Define Firewall and describe three types of Firewall.

UNIT-IV

- 7. What is Digital Forensic? Explain the types of Digital Forensic discuss the challenges faced by Digital Forensic.
- 8. (a) Write notes on the following:
 - (i) Digital Signatures and the Indian IT act.
 - (ii) Architecture of IP Security.
 - (b) Why do we need Cyber Laws? Discuss the legal perspective of Cyber Crimes and Cyber Security. 7

(b) What is 3 cure to a Algorithm (class to the sector