

(iv) Tampering with computer source documents

(v) Acts of Cyber terrorism

(c) Explain Port scan? Explain the important techniques of port scanning.

3+7=10

Total number of printed pages-4

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2024

INFORMATION SECURITY AND CYBER LAWS

Paper : ITB-HG-4026

Full Marks : 60

Time : Three hours

**The figures in the margin indicate
full marks for the questions.**

1. Explain the following terms : $1 \times 10 = 10$
 - (a) Cyber Security
 - (b) Cyber warfare
 - (c) Software Piracy
 - (d) Port Scanning
 - (e) Malware
 - (f) Cipher

(g) IP Spoofing

(h) Data Integrity

(i) Digital Signature

(j) Cryptography

2. Answer the following questions: $2 \times 5 = 10$

(a) Write the differences between Authentication and Authorization.

(b) Write the differences between Scanning and Sniffing.

(c) Write the differences between Hacking and Cracking.

(d) What are the uses of port number 22 and 23?

(e) What is a DOS attack?

3. Answer the following questions: **(any four)**

$5 \times 4 = 20$

(a) Explain common password cracking techniques.

(b) Explain white hat, black hat and gray hat hackers.

(c) Explain how phishing can lead to cause security threat in an organization.

(d) Explain Private Key and Public Key with examples.

(e) Explain Substitution Ciphers with example.

4. Answer the following questions: **(any two)**

$10 \times 2 = 20$

(a) What is an Intrusion Detection System? What are the benefits of IDS? Explain various types of Intrusion Detection Systems.

(b) Write the relevant section with their penal provisions in connection with the various Cyber crimes as per the Information Technology Act, 2000

(i) Privacy violation

(ii) Damage to computers

(iii) Publishing child porn or predated children online