

- (c) Publishing child porn or predating children online
- (d) Tampering with computer source documents
- (e) Acts of cyber terrorism

Or

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

6. Write short notes on : **(any three)** $5 \times 3 = 15$

- (a) Private Key and Public Key
- (b) Substitution Ciphers
- (c) Authentication vs. Authorization
- (d) Importance of Data Security
- (e) Steganography

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2024

COMPUTER APPLICATION

Paper : BCA-HG-4026

(Information Security and Cyber Laws)

Full Marks : 80

Time : Three hours

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

1. Answer the following questions $1 \times 10 = 10$
 - (a) What is Cyber Security ?
 - (b) What do you mean by Denial of Service ?
 - (c) What is Stuxnet ?
 - (d) Which port is used to connect to Active Directory in Windows 2000 ?
 - (e) EDR stands for ____.
 - (f) What do you mean by scanning in cyber security ?

Contd.

- (g) Malware stands for ____.
- (h) What is an IP spoofing ?
- (i) Which section of IT Act deals with the legal recognition of electronic records ?
- (j) Amendment to IT Act, 2000 came into effect on ____.

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

- (a) Write the difference between Information Security and Cyber Security.
- (b) Write the difference between a Threat and Vulnerability.
- (c) What do you mean by SPAM ?
- (d) What is Information System ?
- (e) What are the uses of port number 23 and 80 ?

3. Answer the following questions : **(any three)**
 $5 \times 3 = 15$

- (a) Explain Brute-force attack.
- (b) What do you mean by software and hardware Firewall ?

- (c) Explain cyber warfare and intent of cyber warfare.
- (d) Define Worms Trojan Horse and Spyware with examples.

4. Answer the following questions : **(any four)**
 $5 \times 4 = 20$

- (a) What do you mean by Digital Crime ? Explain various kinds of digital crimes.
- (b) What are the various types of network security threats ?
- (c) What is ethical hacking ? Explain white and gray hat hackers.
- (d) What is password cracking ? Explain common password cracking techniques.
- (e) What is the need of Computer forensics ?

5. Write the relevant section with their penal provision in connection with the various Cyber crimes as per Information Technology Act, 2000. 10

- (a) Publishing offensive, false or threatening information
- (b) Publishing private images of others