

Total number of printed pages-4

44 (4) BCA-HG-4026

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 ?

- (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*)
5×4=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

- (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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