44 (4) BCA-HG-4026

2023

INFORMATION SECURITY AND CYBER LAWS

Paper: BCA-HG-4026

Full Marks: 80

Time: Three hours

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

- Answer the following questions: 1×12=12
 - (a) Which program uses post number 53?
 - (b) Define software piracy.
- (c) Data encryption is primarily used to ensure confidentiality. Section 43

(State True or False)

- (d) Define steganography.
- Which software is mainly used to help users detect viruses and avoid them?
- What do you mean by Malware?

- (g) What is the legal form of hacking?
- which of the following term denotes the protection of data from modification by unknown user?
 - (i) Confidentiality
 - Authentication
 - (iii) Integrity
 - (iv) Non-repudiation
 - (i) What is digital signature?
 - What are cyber world and cyber law?
 - (k) Define Firewalls.
 - (1) What is Information system?
- 2. Mention the relavant section with their penal provision in relation to different cyber offences:

 1×8=8
 - (a) Penalty for damage to computer. Section 43
 - (b) Punishment for cheating by personating es B by using computer resources.
 - (c) Punishment for identity theft.
 - (d) Punishment for cyber terrorism.

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- (e) Punishment for disclosure of information in breach of lawful contract.
- (f) Punishment for sending offensive messages through communication service etc. A
- (g) Tampering with computer source document.
- (h) Punishment for publishing or transmitting obscene material in electronic form.
- 3. Differentiate the following: $3\times5=15$
 - (a) Authentication and authorization
 - (b) Threats and attacks
 - (c) Hardware and software vulnerabilities
 - (d) Ping scan and vanilla scan
 - (e) Scanning and sniffing
- 4. Describe Risk Management. List the components of Risk Management. 5
- Decrypt the following Cipher text to Plain text using Rail Fence Cipher technique: (key = 3)

adicevidgtlrmoiai

| d | efine data security. State the importance of ata security. |
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| 7. A | nswer the following questions: 5×2=10 |
| 10 | I DISCUSS THE TOTE OF TORBETTO |
| | detection system. Write a brief overview of digital crime. |
| EM. | What are the differences between Hacking and Cracking? |
| Ch | Define spoofing. Explain any three types of spoofing. |
| po th | that is a port scan? What are the uses of ort number 20, 22 and 80? Explain any where port scanning techniques. 1+3+6=10 |
| W | rite short notes on: (any two) 5×2=10 |
| 10 | Malicious software |
| (b) | Caeser Cipher technique od rozad |
| (c) | Digital signature |
| (d | Private key cryptography |
| (e) | Computer forensic |