

(Please write your Exam Roll No.)

Exam Roll No.

END TERM EXAMINATION

THIRD SEMESTER [BCA] JANUARY-FEBRUARY 2023

Paper Code: BCAT-213

Subject: Cyber Security

Time: 3 Hours

Maximum Marks: 75

Note: Attempt five questions in all including Q.No.1 which is compulsory. Select one question from each unit.

- Q1. Write short notes on the following (Any Five): (5x5=25)
- (a) Explain the concept of Data Security Council of India.
 - (b) Define main techniques hackers can use to get hold on your password.
 - (c) Define Digital Signature algorithm.
 - (d) Write down the steps involved in computer forensic investigation.
 - (e) Explain the differences between Virus, Worms, and Trojan horse.
 - (f) Compare between Symmetric key encryption and Asymmetric key encryption.
 - (g) What are the categories of Computer Society?
 - (h) Explain the concept of IPC 1980.

UNIT-I

- Q2. (a) What is Cybercrime? How it is classified? What are the different types of cybercrimes towards an individual? (6.5)
(b) Explain various criminal attacks in detail? (6)
- Q3. (a) What is the data security consideration? Explain in this reference Data Backup security, Data archival security and Data disposal consideration. (6.5)
(b) Elaborate the concept of cyberstalking in detail. (6)

UNIT-II

- Q4. (a) Define DoS and DDoS Attacks in brief. What are the techniques behind such attacks? (6.5)
(b) Explain the term Hacking. What are the various classifications of hackers? (6)
- Q5. (a) What is password cracking? List four guidelines that need to be followed to avoid password cracking. (6.5)
(b) Explain the term Phishing. Write down various methods or activities which constitute phishing. (6)

UNIT-III

- Q6. (a) Explain the architecture of firewall. What are the various characteristics of firewall? (6.5)
(b) Explain the S-MIME protocol for secure E-Mail. (6)

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- Q7. (a) Explain the concept of cryptography by using the diagrammatical approach of it? Define the transformation method of it. (6.5)
(b) Explain the following terms: (6)
(a) Bit-stream image
(b) Chain of custody
(c) Evidence custody form

UNIT-IV

- Q8. (a) Explain Software piracy. Write down various activities that constitute software piracy. (6.5)
(b) What are the requirements to set up a workstation for computer forensics? (6)
- Q9. (a) What are the different acquisition tools in forensics? Explain. (6.5)
(b) Explain the legal process to conduct computer investigation for potential criminal violations of law. (6)
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