

[This question paper contains 2 printed pages.]

Sr. No. of Question Paper : 275

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Your Roll No.....

Unique Paper Code : 234657

Name of the Course : **BA Programme**

Name of the Paper : Information Security [CA 3B]

Semester : VI

Duration : 3 Hours

Maximum Marks : 75

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. **Section A** is compulsory.
3. Attempt any **three** questions from **Section B**.
4. Parts of a question must be answered together.

SECTION A

1. (a) Distinguish between threats and attacks. (2)
(b) Explain symmetric cryptographic technique. (2)
(c) Explain any one use of steganography in message transmission. (2)
(d) What is the main use of firewall in a network ? (2)
(e) Define any two components of information security. (2)
(f) What is the difference between law and ethics ? (2)
(g) Distinguish between direct attacks and indirect attacks on computer networks. (3)
2. (a) Describe risk management. List the components of risk management ? (5)

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- (b) What are the differences between a skilled hacker and an unskilled hacker ? (5)
3. (a) With suitable examples or block diagram, show how symmetric encryption systems differ from asymmetric encryption systems. (5)
- (b) Explain the importance of availability, accuracy, authenticity and confidentiality in an information system. (5)
4. (a) What are vulnerabilities ? Name any two vulnerabilities. (5)
- (b) Describe the term phishing and pharming with the help of an example. (5)
5. (a) What are various attacks on passwords ? What should a systems administrator do to protect against these attacks ? (3)
- (b) Define the term "Intrusion". How does firewall help in guarding against it ? (3)
- (c) What is the difference between a denial-of-service attack and a distributed denial-of-service attack ? (4)
6. Write short notes on any **four** :
- (a) Spam
- (b) Digital Certificates
- (c) Back Door
- (d) Security Standards
- (e) Spoofing (2.5×4=10)