

[This question paper contains 2 printed pages.]

Sr. No. of Question Paper : 5490

D

Your Roll No.....

Unique Paper Code : 234657

Name of the Course : **B.A. (Prog.)**

Name of the Paper : Information Security (CA 3B)

Semester : VI

Duration : 3 Hours

Maximum Marks : 45

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Part A is compulsory.
3. Answer any **three** questions from Part B.

PART A

1. (a) What is a hybrid firewall? (2)
- (b) What is risk management? (1)
- (c) Define Proxy Server. (1)
- (d) Describe circuit gateway. (1)
- (e) List out few applications of steganography. (2)
- (f) Name two techniques that use asymmetric encryption. (2)
- (g) Define information security. (1)
- (h) Define the term virus. (1)
- (i) How does Trojan horse infect the computer? (2)
- (j) Describe access control. (2)

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PART B

2. (a) Differentiate between proactive and reactive risk management techniques. (3)
- (b) List the important features of a good information security policy. (4)
- (c) Why is physical design important in security system ? (3)
3. (a) Among the user, management and technical staff, who should lead the information security team ? Justify your answer. (4)
- (b) Explain various physical access control methods. (3)
- (c) How does outdated technology constitute a threat to information security ? How can an organization protect against it ? (3)
4. (a) How is an application layer firewall different from a packet-filtering firewall ? Why an application layer firewall is sometimes called a proxy server ? (5)
- (b) What is authorization ? Describe different authorization techniques used in access control. (5)
5. (a) What is password attack ? What can a systems administrator do to protect against it ? (3)
- (b) Describe information confidentiality. List a number of measures to protect the confidentiality of information. (4)
- (c) Discuss the relationship between information security and physical security. (3)
6. (a) Explain the importance of availability, accuracy, authenticity and confidentiality in an information system. (4)
- (b) Distinguish between confidentiality and Integrity with a suitable example. (3)
- (c) Explain social engineering with the help of a suitable example. (3)