

[This question paper contains 2 printed pages.]

Sr. No. of Question Paper : 5428

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) Define Information. (1)
- (b) Distinguish between threats and attacks. (2)
- (c) What is a policy ? How is it different from a law ? (2)
- (d) What are vulnerabilities ? How do you identify them ? (2)
- (e) Describe the term e-mail spoofing. (2)
- (f) Describe brute force and dictionary attack. (2)
- (g) Explain residual risk. (2)
- (h) What is a hybrid firewall ? (1)
- (i) Describe circuit gateway. (1)

P.T.O.

PART B

2. (a) What is information security ? Explain the different levels of security. (3)
- (b) Why is data the most important asset an organization possesses ? What other assets in the organization require protection ? (4)
- (c) What is the difference between a skilled hacker and an unskilled hacker ? How does the protection against each differ ? (3)
3. (a) What are the various types of malware ? How do worms differ from viruses ? Do Trojan horses carry viruses or worms ? (4)
- (b) What is the difference between a denial-of-service attack and a distributed denial-of-service attack ? Which is more dangerous ? Why ? (4)
- (c) Explain any one cryptographic technique for security. (2)
4. (a) Who is responsible for risk management in an organization ? Explain. (3)
- (b) Describe the term phishing and pharming with the help of an example. (4)
- (c) What are proactive and reactive risk management techniques ? (3)
5. (a) How is an application layer firewall different from a packet-filtering firewall ? Why is an application layer firewall sometimes called a proxy server ? (4)
- (b) What is access control ? Describe all access control approaches. (4)
- (c) What is authorization ? Describe different authorization techniques used in access control. (2)
6. Write short notes on any two from the following :
- (a) Digital signatures
- (b) Steganography
- (c) Symmetric cryptosystem (2×5)