Q. P. Code: 09350

(3 hours) [Total marks: 75

N. B.:

- 1. Attempt any three questions from each section
- 1. Answers to the two sections must be written in same answer sheet.
- 2. Figures to the right indicate full marks.
- 3. Assume additional data if necessary but state the same clearly.
- 4. Symbols have their usual meanings and tables have their usual standard design unless stated otherwise.
- 5. Use of Simple calculators and statistical tables is allowed.

Section I

1	a.	What is a malicious code? List and explain any two.	-7
	b.	Compare between modification and fabrication with reference to security. Give example.	6
2	a.	Give examples of protected objects. How does operating system ensure their protection?	6
	b.	What is meant by targeted malicious code? Give examples.	6
3	a.	What is authentication? State and explain various types of authentication controls.	6
	b.	What are the requirements of a security system? List and describe them.	6
4	a.	What is a good security policy? What are its essential characteristics?	6
	b.	Write a note on physical security of data.	6
5	a.	What is multilevel security? Explain with suitable example.	6
	b.	What is memory address protection? Explain.	6
		Section II	
6	a.s	Write a note on protocol failure and its impact on network security	7
	b .	Explain the details of DES block structure cipher algorithm.	6
7	a.	Explain the details of encryption and decryption process of RSA algorithm for security	6
	377	of data.	
	b.	What are the objectives and characteristics of hash algorithm? Explain.	6
8	a.	What are the security problems that arise due to misconfigured servers? Explain.	6
	b.	What is PGP? Explain its working.	6
9.	a.	List and explain goals of server attack.	6
	b.	Write a note on internet key exchange.	
10	a.	What is security association? Explain with suitable example.	6
	b.	What are firewalls? Briefly outline about the firewall configurations.	6

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