Q.P.Code: 09349

(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. b.	What is principle of adequate protection? Explain in detail. List and explain various methods of defense.	6
2	a. b.	What are non-malicious program errors? Explain with suitable example. What is a virus? Explain how viruses attach and gain control?	6 6
3	a. b.	Write a note on file protection mechanisms. What is multilevel security? Why is it important? Give example of multilevel security.	6
4	a. b.	What are the various security requirements? List and explain each of them. Briefly describe the contents of security planning.	6 6
5	a. b.	Write a note on ethical issues in computer security. What are the characteristics of good security policy? Explain.	6 6
		Section II	
6	a. b.	What is meant by information leakage? What are its various sources? Define the terms cryptography, cryptology and cryptanalysis.	7 6
7	a. b.	Outline the structure and operation of DES algorithm. What is a digital signature? Explain how digital signature algorithms are used?	6 7
8	a. b.	Compare between DES and AES algorithm. What is demilitarized zone? Explain.	6 7
9.	a. b.	What is meant by DNS cache poisoning? Explain. What is IDS? Explain its types.	6 7
10	a. b.	Write a note on wireless transport layer security. Briefly describe the IPSec Key management.	6 7