

MAY 2015

P/ID 16168/PITSJ

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Time : Three hours

Maximum : 100 marks

PART A — (6 × 5 = 30 marks)

Answer any SIX questions each in 200 words.

1. Name the possible attacks for information on computer networks and state their impact.
2. What are viruses? How they will affect system?
3. Write the schemes for memory address protection and explain.
4. Describe file authentication basics and how they are implemented.
5. How a database is provided with all security arrangements? Illustrate.
6. What is a firewall? State the characteristic features.
7. What are organisational security policies? How they are implemented? State the bottlenecks.
8. How ethical issues are handled? Illustrate with a case study of your own.

PART B — (7 × 10 = 70 marks)

Answer any SEVEN questions each in 500 words.

9. How and when do you say a program is secured? Describe how security is provided to the programs.
10. Explain malicious and non-malicious program errors. How are they handled?
11. What are program threats? How they are received and managed? Illustrate.
12. Describe the file protection mechanism and how they are assured of attack free.
13. How the sensitive data is provided with enough security? If this data is in a database, how the security is extended?
14. Describe various proposals for multilevel security. State their possibilities of implementation.
15. Explain various threats for networks. Describe network security controls.
16. Write briefly on networks behaviour with implementation of cryptographic algorithms.
17. What are software failures? How are they classified? What causes damaging the system?