

MAY 2016

P/ID 77951/PMSQ1

Time : Three hours

Maximum : 100 marks

PART A — (5 × 6 = 30 marks)

Answer any FIVE questions.

1. Define security. What are the different layers of security?
2. What is cryptography? What are the basic operations in cryptography?
3. Write a note on the various access controls used for providing physical security.
4. Explain the methods to assess and control the risk.
5. Explain the ethical concepts in information security.
6. How will you enhance the ability of a system against intruders and malicious programs?
7. State the use of scanning and analytical tools?
8. Explain the different types of information security policies.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

9. Explain the types and uses of information security controls.
10. What is a honey-pot? How is it different from a honey-net?
11. Explain the various components used in designing the security architecture.
12. Describe the process of risk identification also explain the different risk control strategies.
13. Explain the best method for preventing an unethical activity.
14. Why is a methodology important in the implementation of information security?
15. What is technology governance? How are they related with change control?
16. Describe the access controls used for providing physical security.

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PART C — (1 × 20 = 20 marks)

Compulsory

17. Classify each of the following occurrences as an incident or disaster. If an occurrence is a disaster, determine whether or not business continuity plans would be called into play.
- (a) A hacker gets into the network and deletes files from a server.
 - (b) A fire breaks out in the storeroom and sets off sprinklers on that floor. Some computers are damaged but the fire is contained.
 - (c) A flood hits a power company and the company will be without power for five to seven hours.
 - (d) Employees go on strike and the company could be without critical workers for weeks.

For each of the above situations, describe the steps necessary to restore operations.
