

18/6/16 AN

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Question Paper Code : 51749

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2016

Seventh Semester

Information Technology

IT 2042/IT 706/10177 ITE 33 – INFORMATION SECURITY

(Regulations 2008/2010)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions.

PART – A (10 × 2 = 20 Marks)

1. Define Security. What are the multiple layers of Security ?
2. When can a computer be a subject and an object of an attack respectively ?
3. What is intellectual property ?
4. What is a policy ? How is it different from a law ?
5. In risk management strategies, why does periodic review have to be a part of the process ?
6. What is asset valuation ? List any two components of asset valuation.
7. Give the difference between an ACL and a configuration rule.
8. List the four phases to be considered in incident response of an incident.
9. What is cryptology ?
10. What are the credentials of information security professionals ?

PART – B (5 × 16 = 80 marks)

11. (a) List and explain the various critical characteristics of information.

OR

(b) Explain the difference between Systems Development Life Cycle (SDLC) and Security Systems Development Life Cycle (SecSDLC).

12. (a) (i) Explain the four important functions of information security in an organization. (8)

(ii) Describe the major types of attacks in detail. (8)

OR

(b) (i) Discuss the different kinds of threats to an information security. (8)

(ii) Explain the ethical concepts in information security and the deterrence to illegal and unethical behaviour. (8)

13. (a) Sketch and explain the components of risk identification process.

OR

(b) (i) Brief about the data classification and management process. (8)

(ii) List and explain the different types of access control. (8)

14. (a) Explain the following :

(i) ISO 17799/BS 7799. (8)

(ii) VISA international security model. (8)

OR

(b) Explain the major steps involved in contingency planning. (16)

15. (a) (i) Discuss about the various adaptations followed in a secured e-mail. (8)

(ii) Explain the various components of single round Data Encryption Standard (DES) algorithm with neat sketch. (8)

OR

(b) (i) With a neat diagram, explain host-based Intrusion Detection System. (8)

(ii) How biometric technologies are evaluated ? Explain with suitable example. (8)