Reg. No. : ☐☐☐☐☐☐☐☐☐☐☐

Question Paper Code : P 1188

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2009.

Seventh Semester

Computer Science and Engineering

CS 1014 — INFORMATION SECURITY

(Common to Eighth Semester Information Technology)

(Regulation 2004)

Time : Three hours   Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define the term "Information Security".

2. List the components of an information system in the context of security.

3. What do you mean by 'attack' in the context of security?

4. What is the need for data security?

5. What are the issues analysed during developmental stages of application software?

6. List the methods for controlling risk.

7. State the role of ISO 17799.

8. List the components of NIST models.

9. Define the term "IDS".

10. State the types of cryptography.

PART B — (5 × 16 = 80 marks)

11. (a) (i) Discuss the evolution of information security models and standards.
    (ii) Explain the methods for securing the components.

Or

    (b) Explain the needs and methods of balancing security and access to computer data.

12. (a) Define and discuss the term "Threat" in the context of security.

Or

    (b) Discuss in detail the ethical issues addressed in the context of Information Security.

13. (a) Explain the methods for identifying and assessing risk.

Or

    (b) (i) Describe the policies for 'RISK MANAGEMENT'.

    (ii) Develop a case study for analysing the risk for the following situation :

    University needs to collect INTERNAL MARKS of all the registered students from various affiliated colleges and use the same in computing/printing PASS or FAIL.

14. (a) (i) Describe the concepts of 'Blueprint for Security'.
    (ii) Explain the needs and issues in Planning for Continuity.

Or

    (b) Describe the design of Security Architecture with a suitable example.

15. (a) (i) Discuss the advantages and weaknesses of single alphabet substitution cryptography. (8)
    (ii) Describe the concepts in IDS. (8)

Or

    (b) Discuss the features and facilities incorporated in any one of the standard 'scanning and analysis tool'.

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