

FACULTY OF INFORMATICS

B.E. IV/IV (IT) I SEMESTER (New) (Main) Examination, Nov./Dec., 2009
INFORMATION SECURITY (ELECTIVE – III)

Time : 3 Hours]

VASAVI LIBRARY

[Max. Marks : 75

Note : Answer **all** questions from Part – A. Answer any **five** questions from Part – B.

PART – A

(Marks : 25)

1. What happens in the logical design phase of security systems development life cycle ? (3)
2. Distinguish between exploit and vulnerability. (2)
3. Write how cultural differences can influence ethical concepts in Information Security. (2)
4. Describe Risk Mitigation. (3)
5. Define the terms policy, standards and practices. (3)
6. List the applications of content filters. (3)
7. State the job of key Distribution Centre in Public Key Cryptography. (2)
8. Comment on the weaknesses of DES. (2)
9. State the requirements of a Digital Signature. (3)
10. Draw the SSL protocol stack. (2)

PART – B

(Marks : 50)

11. List and explain the critical characteristics of information. (10)
12. Describe in detail the process of data classification and how the classified data is managed. (10)
13. Explain the technology components : (10)
(a) Firewall (b) DMZ's (c) Proxy Servers (d) IDS
14. (a) Explain the compression function of MD5. (6)
(b) What are the main differences between MD5 and SHA-1. (4)
15. How are Internet transactions secured using SSL ? (10)
16. Illustrate with an example the process involved in RSA algorithm. (10)
17. Write about any **two** of the following : (2 × 5 = 10)
(a) Data ownership
(b) Issue specific security policy
(c) Organizational and operational feasibility