

**FACULTY OF INFORMATICS**  
**B.E. 4/4 (IT) I – Semester (Suppl) Examination, June 2013**

**Subject : Information Security (Elective - III)**

**Time : 3 hours**

**Max. Marks : 75**

**Note: Answer all questions from Part-A. Answer any FIVE questions from Part-B.**

**PART – A (25 Marks)**

1. How do worms differ from viruses? (2)
2. Differentiate between subject of attach and object of attach. (3)
3. What is a risk and how is it identified? (3)
4. State the impact of cultural differences in ethics of information security. (2)
5. Define SPP. (2)
6. Outline the purpose of vulnerability scanners. (3)
7. Differentiate between DES and AES. (3)
8. Write about transposition ciphers. (2)
9. Comment on the need for digital signatures. (2)
10. List the services provided by SSL. (3)

**PART – B (50 Marks)**

- 11.a) Discuss about the security systems development life cycle. (6)
- b) Outline any four threat groups. (4)
12. Explain how risk should be controlled. (10)
- 13.a) What is the typical relationship between the untrusted network, the firewall and the trusted network. (4)
- b) Write about the evolution of firewalls. (6)
14. With necessary diagrams explain AES encryption and decryption. (10)
15. Briefly explain the process of generating a 160-bit message digest using SHA-1 algorithm. (10)
16. Summarize (10)
  - a) Ethical issues involved in the formulation of information security procedures in an organization.
  - b) Information asset classification and valuation.
17. Write about (10)
  - a) Components of Information system.
  - b) Common form of violation of intellectual property and how organizations protect against it.

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