

**FACULTY OF ENGINEERING**

**B.E. 4/4 (CSE / IT) I - Semester (Supplementary) Examination, June 2016**

**Subject : Information Security**

**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 Draw the CIA triangle.   | 3 |
| 2 What is steganography?   | 2 |
| 3 Differentiate between symmetric and asymmetric encryption.     | 3 |
| 4 What is security blue print?                                   | 3 |
| 5 List the components of risk management.                        | 2 |
| 6 What are the stages in security system development life cycle? | 3 |
| 7 Why is security education required?                            | 3 |
| 8 What is authentication?  | 2 |
| 9 List the different components of an information system.        | 2 |
| 10 What are the different modes of IPSEC?                        | 2 |

**PART – B (50 Marks)**

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|---|----|
| 11 a) Explain the critical characteristics of information.            | 5  |
| b) Discuss different US laws of information security.                 | 5  |
| 12 a) What is security attack? Explain different security attacks.    | 5  |
| b) What are the various threats for information security?             | 5  |
| 13 a) Discuss how VPNs are used in protecting remote connections.     | 6  |
| b) Explain MAC layer firewall.  | 4  |
| 14 Explain different types of IDPSs.                                  | 10 |
| 15 Discuss different physical access controls.                        | 10 |
| 16 Explain different strategies in selecting risk control strategies. | 10 |
| 17 Give short notes on :  |    |
| a) Public key infrastructure  | 4  |
| b) Substitution cipher  | 3  |
| c) Biometric controls   | 3  |

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