

**FACULTY OF INFORMATICS****B.E. 4/4 (CSE /IT) I - Semester (Main) Examination, December 2015****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  | What are the components of an Information system?                  | 3 |
| 2  | How to balance information security and its accessibility?         | 2 |
| 3  | What are the different types of laws?                              | 2 |
| 4  | Differentiate between IRP, DRP and BCP.                            | 3 |
| 5  | Define : Firewall and DMZ  | 2 |
| 6  | Write brief note on proxy server.                                  | 3 |
| 7  | Differentiate between digital certificates and digital signatures. | 2 |
| 8  | What is public key encryption?                                     | 3 |
| 9  | Differentiate between certification and accreditation.             | 2 |
| 10 | List out the various employment policies and practices.            | 3 |

**PART – B (5 10 = 50 Marks)**

- |    |   |    |
|----|---|----|
| 11 | Explain the various stages involved in sec SDLC in detail.        | 10 |
| 12 | Explain the process of Risk identification in detail.             | 10 |
| 13 | a) Explain the various firewall architectures.                    | 6  |
|    | b) Write about securing authentication with Kerberos.             | 4  |
| 14 | a) Write about symmetric encryption.                              | 3  |
|    | b) Explain RSA algorithm with an example.                         | 7  |
| 15 | Explain the security maintenance model.                           | 10 |
| 16 | a) Discuss about how to select a risk control strategy in detail. | 6  |
|    | b) Write about RADIUS and TACACS.                                 | 4  |
| 17 | Write short notes on the following :                              |    |
|    | a) ACLS   | 3  |
|    | b) DES  | 4  |
|    | c) IDPS   | 3  |

\*\*\*\*\*