

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

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| 1 | State the critical characteristics of information. | 3 |
| 2 | Define network security. | 2 |
| 3 | Differentiate policy and law. | 3 |
| 4 | What is the difference between vulnerability and exposure? | 2 |
| 5 | What is firewall? | 2 |
| 6 | List the applications of content filters. | 3 |
| 7 | What is cryptography and cryptanalysis? | 3 |
| 8 | Give any four names of substitution techniques. | 2 |
| 9 | What is digital forensics, and when is it used in a business setting? | 3 |
| 10 | List and describe the three major steps in executing the project plan. | 2 |

PART – B (50 Marks)

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| 11 | List and define the factors that are likely to shift in an organization's information security environment. | 10 |
| 12 | What is Intrusion Detection System (IDS)? What are different types of Intrusion Detection Systems available? Explain with diagrams. | 10 |
| 13 | Explain in detail: | |
| | i) Firewalls categorized by processing mode | 5 |
| | ii) Different generations of firewall | 5 |
| 14 | Explain in detail different risk control strategies. | 10 |
| 15 | Explain in detail the Security System Development Life Cycle (Sec SDLC). | 10 |
| 16 | Explain with examples various threats to Information Security. | 10 |
| 17 | Write short notes on: | |
| | i) Incident Response Plan (IRP) | 5 |
| | ii) Strength of DES. | 5 |