

FACULTY OF INFORMATICS**B.E. 4/4 (IT) I – Semester (Main) Examination, Dec. 2014 / Jan. 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 List the functions the CISO performs, and what are the key qualifications and requirements for the position. 2
- 2 What is digital forensics, and when is it used in a business setting? 3
- 3 What is cryptanalysis and cryptography? 2
- 4 Give three examples for secretive encryption technique. 3
- 5 Define the terms policy, standards and practices. 2
- 6 What is security blue print? 2
- 7 State the roles involved in risk management. 3
- 8 What is the difference between a threat agent and a threat? 2
- 9 What is information security? 3
- 10 Differentiate between threat and attack. 3

PART – B (50 Marks)

- 11 a) State the critical characteristics of information. 5
b) Write a note on the history of information security. 5
- 12 Explain in detail different risk control strategies. 10
- 13 Write short notes on: 10
a) Incident Response Plan (IRP)
b) Disaster Recovery Plan
c) Business Continuity Plan
- 14 Write short notes on: 10
i) Network-based IDS
ii) Host-based IDS
iii) Application-based IDS
iv) Signature-based IDS
- 15 What is a project plan? List what a project plan can accomplish. List and describe the three major steps in executing the project plan. 10
- 16 a) Differentiate public and private key cryptography. 5
b) Write about different generations of firewall. 5
- 17 Explain with examples various threats to Information Security. 10