

Code No: 117JV

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**B. Tech IV Year I Semester Examinations, November/December - 2017**

**INFORMATION SECURITY ASSESSMENTS AND AUDITS**

**(Common to CSE, IT)**

**Time: 3 Hours**

**Max. Marks: 75**

**Note:** This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

**PART- A**

**(25 Marks)**

- 1.a) Explain briefly Information Systems Audit. [2]
- b) Write a short note on the factors on which the scope of the Security Audit depends upon. [3]
- c) Write a short note on Internal Security Auditing Tools. [2]
- d) What is Vulnerability Assessment? [3]
- e) List out various phases in Vulnerability Management Process. [2]
- f) Write a short note on various types of vulnerabilities. [3]
- g) Define RISK. [2]
- h) List out various goals of Risk Analysis. [3]
- i) Define SecCM. [2]
- j) What is Security Focused Configuration Management? [3]

**PART-B**

**(50 Marks)**

- 2.a) State and explain various Common Issues and Variances of Performance Metrics.
- b) What makes a good security audit? [5+5]

**OR**

- 3.a) Write a short note on various Phases of Information Security Audit and Strategies.
- b) Explain in detail the Ethics to be followed by an Information Security Auditor. [5+5]

- 4.a) Explain in detail about various types of Vulnerability Assessment.
- b) Explain in detail about Firewall Security Audit and Social Engineering Security Auditing. [5+5]

**OR**

- 5. What is External Security Auditing? Elaborate Steps for Conducting External Security Auditing. [10]

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- 6.a) Write a short note on few scenarios where the vulnerabilities can be observed.
- b) Write a short note on Human Based Social Engineering / Non-Technical Attack Vectors.

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7. Explain in detail the Weapons of a Social Engineer that can pose vulnerability issues to an organization. [5+5] [10]

- 8.a) Explain in detail various phases in Vulnerability Assessment.
- b) Write a short note on various Risk treatment strategies.

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9.a) Explain in detail about Risk Management Feedback Loops. [5+5] [5+5]

- b) Write a short note on tools for creating Vulnerability Assessment Reports.

- 10. What is Configuration Management? Explain in detail various parts of Configuration Management. [10]

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11.a) List out the various mission/functional requirements of SecCM Tools. [5+5]

- b) Elaborate various steps taken for development of Configuration Control Policies.

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