

Code No: 824BC

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**MCA V Semester Examinations, January - 2018****PRINCIPLES OF INFORMATION SECURITY****Time: 3hrs****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**5 × 5 Marks = 25**

- 1.a) What is the need of information security explain? [5]
- b) Which law amended the Computer Fraud and Abuse Act of 1986, and what did it change? [5]
- c) Write a short notes on Residual Risks. [5]
- d) Establish the need for professional project management for complex projects. [5]
- e) Explain the issues and concerns related to staffing the information security function[5]

PART - B**5 × 10 Marks = 50**

2. Explain in detail about the top down approach for implementing the information security? [10]

OR

3. Describe in detail about the concept of CNSS security model. [10]

4. Explain in detail about Information Security Planning and Governance. [10]

OR

5. Explain the role of culture as it applies to ethics in information security. [10]

6. Identify and describe the categories and operating models of intrusion detection and prevention systems. [10]

OR

7. Describe in detail about various risk control strategies. [10]

8. How does Public-Key Infrastructure protect information assets? [10]

OR

9. Compare and Contrast between Symmetric and Asymmetric key cryptography. [10]

10. List and describe the options available for the location of the information security functions within the organization. Discuss the advantages and disadvantages of each option? [10]

OR

11. What does CERT stand for? Is there more than one CERT? What is the purpose of a CERT? Explain. [10]

---oo0oo---