

R15

Code No: 721CV

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**MBA II 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 are the three components of the C.I.A. triangle? What are they for? Explain. [5]
- b) How is due diligence different from due care? Why are both important? [5]
- c) Describe how outsourcing can be for risk transference. [5]
- d) Which kind of attack on cryptosystem involves using a collection of pre identified terms? [5]
- e) Explain the special requirements needed for the privacy of personnel data. [5]

PART – B**5 × 10 marks = 50**

- 2.a) List and explain the components of information system.
 - b) Why is the top-down approach to information security superior to the bottom-up approach? Explain. [5+5]
- OR**
- 3.a) Identify the six components of an information system. Which are most directly affected by the study of computer security? Which are most commonly associated with its study?
 - b) Why do employees constitute one of the greatest threats to information security? Discuss. [5+5]
- 4 What is intellectual property (IP)? Does it afforded the same protection in every country of the world? What laws currently protect it in the United States and Europe? [10]

OR

- 5.a) What can be done to deter someone from committing a crime? Explain
 - b) Give a brief note on Information Security Policy, Standards, and Practices. [5+5]
6. Write the basic terminology that makes residential/SOHO firewall appliances effective in protecting a local network. Why is this usually adequate for protection? [10]
- OR**
7. Explain the following terms:
 - a) Intrusion Detection and Prevention Systems
 - b) Firewalls and VPNs [5+5]
- 8.a) Why is it important to exchange keys “out of band” in symmetric encryption?
 - b) How to implement nontechnical aspects of information security? Discuss. [5+5]

OR

9. Write the average key size of a “strong encryption” system in use today. Explain in detail. [10]

- 10.a) How an organization's employment policies and practices can support the information security effort?
b) With the help of neat diagram, explain the Vulnerability Assessment and Remediation.

[5+5]

OR

11. List and explain the Issues and concerns about staffing information security. [10]

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