Code No: 721CV

R15

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
MBA II Semester Examinations, December - 2019
PRINCIPLES OF INFORMATION SECURITY

Time: 3hours   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)	Discuss about various types of Security attacks.	[5]
b)	Explain the difference between law and ethics?	[5]
c)	What is a hybrid firewall?	[5]
d)	What are cryptography and cryptoanalysis?	[5]
e)	What is vulnerability assessment?	[5]

PART - B   5 × 10 Marks = 50

2.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) What is the difference between a denial-of-service attack and a distributed denial-of-service attack? Which is more dangerous? Why?   [5+5]

OR

3.a) Why is a methodology important in the implementation of information security? How does a methodology improve the process?
 b) How does technological obsolescence constitute a threat to information security? How can an organization protect against it?   [5+5]

4.a) What is intellectual property (IP)? Is it afforded the same protection in every country of the world? Explain.
 b) Where can a security administrator find information on established security frameworks?   [5+5]

OR

5.a) Explain about Policy versus Law.
 b) What benefit can a private, for-profit agency derive from best practices designed for federal agencies?   [5+5]

6.a) In risk management strategies, why must periodic review be a part of the process?
 b) Write about biometric authentication technologies.   [5+5]

OR

7. With neat diagrams, explain in detail about firewall processing modes.   [10]

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

OR

9.a) List and describe the four categories of locks. In which situation is each type of lock preferred?

b) Discuss about executing plan with neat diagram. [5+5]

10. Explain in detail about employment policies and practices. [10]

OR

11. Explain the information security services life cycle with diagram. [10]

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