Code No: 116FB

R13

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech III Year II Semester Examinations, October/November - 2016
INFORMATION SECURITY MANAGEMENT
(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)	What is the need for security?	[2]
b)	Differentiate between Laws and Ethics.	[3]
c)	Identify the components of Information system.	[2]
d)	What are the threats of Information security?	[3]
e)	What is Residual risk?	[2]
f)	Discuss about Key performance Indicator.	[3]
g)	What are the different roles of Information security?	[2]
h)	What is a Framework?	[3]
i)	What values does an automated asset inventory system have for the risk identification process?	[2]
j)	Mention the components of the sphere of security.	[3]

PART - B

(50 Marks)

2.   What components of an Information System that are most directly affected by study of computer security?   [10]

OR

3.a)   Which approach is superior when compared both top down and bottom up approaches. Why?

b)   Write about different security measures.   [5+5]

4.   What are the characteristics of Critical Information System? Explain in detail.   [10]

OR

5.a)   Write about the following functionalities of DRP.

b)   Explain in detail about different information states.   [5+5]

6.   What are the components of Risk Management? Explain in detail about them.   [10]

OR

7.   Describe in detail about Risk Controlling Strategies.   [10]

8.   Explain briefly about
        a) ISO 17799/BS7799 Model
        b) NIST security model.   [5+5]

OR

9.a)   Describe the components used in design of security architecture.

b)   Write down the guidelines followed for security standards.   [5+5]

10.a) What are the functions of Chief Information Security Officer?
   b) Explain the responsibilities of Proxy server in Information security.   [5+5]

OR

11.a) Explain how should a team respond to emergency situations.
   b) What is DMZ? Mention its role in security architecture.   [5+5]

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