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## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA V Semester Examinations, June/July - 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		
$5 \times 5 \text{ Marks} = 25$		
1.a) b) c) d) e)	What are the components of information security? Explain briefly.  Describe digital millennium copy right act.  Explain the mechanisms of access control.  Describe Vernam and Ex-or ciphers with an example.  Describe the goals and team of digital forensic.	[5] [5] [5] [5] [5]
PART - B		
2.a)	$5 \times 10 \text{ M}$ Describe the various phases of information security.	arks = 50
b)	Explain information extortion? Describe how such an attack can cause losses.  OR	[5+5]
3.a) b)	Explain, the problem arises in software development security. What is information system? Explain its components.	[5+5]
4.	What is Enterprise information security policy? Explain in detail its components. <b>OR</b>	[10]
5.	Discuss about five elements of business impact analysis for information security.	[10]
6.	Give a detailed note on components of risk identification in information security. $\mathbf{OR}$	[10]
7.a) b)	Describe virtual private networks.  Explain network intrusion detection and prevention system.	[5+5]
8.	Explain RSA algorithm and write its strengths and weaknesses.  OR	[10]
9.	Explain components of public key infrastructure.	[10]
10.	Describe the life cycle of information security services.  OR	[10]
11.a) b)	Explain various method to acquire forensic data.  Explain vulnerability assessment of security maintenance model.	[5+5]

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