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## APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

EIGHTH SEMESTER B.TECH DEGREE EXAMINATION, MAY 2019

**Course Code: CS472** 

Course Name: PRINCIPLES OF INFORMATION SECURITY

Ma	Max. Marks: 100 Duration		Hours
		PART A  Answer all questions, each carries 4 marks.	Marks
1		What is brute force attack?	
2		Discuss different types of attacks that can occur in an organization.	(4)
3		Describe discretionary policies for Biba model.	(4)
4	What is phishing? Give an example.		(4)
5		Differentiate between polymorphic and metamorphic worm.	
6		How do you reduce the impact of XSS vulnerabilities?	(4)
7	7 Describe frame spoofing with a neat diagram.		(4)
8	8 Describe the security enhancements present in UMTS.		(4)
9		What is SOAP binding? Explain with the help of a HTTP message.	(4)
10		List the security threats in RFID based identification and tracking systems.	(4)
		PART B  Answer any two full questions, each carries 9 marks.	
11	a) ,	What is role based access control. Illustrate with suitable example the concept	(4)
		of role inheritance.	
	b)	Differentiate between Discretionary and Role based access control.	(2)
k.	c)	Briefly discuss Mandatory access control implemented in a typical secure	(3)
		operating system.	
12	a)	Demonstrate Chinese wall security model with neat diagram.	(5)
	b)	Classify each of the following as a violation of confidentiality, integrity,	(4)
		availability or some combination thereof. Also justify your answer.	
		i. John copies Mary's homework.	
		ii. Paul crashes Linda's system	
		iii. Carol changes the amount of Angelo's check from 100 to 1000	
		iv. Gina forges Roger's signature on a deed.	

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