Reg No.:	00000AE465121903 me:
8	0000071E403121705

## APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Seventh Semester B.Tech Degree Examination (Regular and Supplementary), December 2020

## Course Code: AE465 Course Name: INFORMATION SECURITY

Max. Marks: 100 Duration: 3 I		3 Hours		
PART A				
	`	Answer any two full questions, each carries 15 marks.	Marks	
1	a)	Explain the goals of security.	(6)	
	b)	Compare symmetric key encryption and asymmetric key encryption.	(3)	
	c)	Explain the models of PKI with neat diagrams.	(6)	
2	a)	Explain the RSA algorithm.	(8)	
	b)	What is a malicious program? Give any two examples.	(7)	
3	a)	Explain the methods used to protect security goals.	(4)	
	b)	What are the countermeasures against the vulnerabilities in information security?	(4)	
	c)	Explain the Diffie-Hellman key exchange.	(7)	
PART B				
Answer any two full questions, each carries 15 marks.				
4	a)	Explain the SSL architecture with neat diagram.	(7)	
	b)	Explain IPSec cookies.	(4)	
	c)	Explain the two modes of operation of IPSec.	(4)	
5	a)	Explain the four protocols used by SSL to accomplish its task.	(8)	
	b)	Explain the ESP protocol.	(7)	
6	a)	Explain the authentication service exchange in Kerberos version4.	(8)	
	b)	What are the different fields in AH protocol?	(5)	
	c)	Compare AH and ESP.	(2)	
PART C				
		Answer any two full questions, each carries 20 marks.		
7	a)	Explain the function and the configuration of firewall.	(10)	
	b)	What are the security procedures in information security?	(6)	
	c)	What are the four phases of data recovery?	(4)	
8	a)	What is IDS? What are the different types of IDS?	(10)	
	b)	What is managed security services and its types?	(5)	
	c)	Explain security audit.	(5)	
9	a)	What are the functions of NAT?	(5)	
	b)	Explain the configuration of firewall.	(5)	
	c)	What are the security policies and procedures?	(10)	

\*\*\*\*