

Attempt all questions in brief.

1.

				Printed Page: 1 of 1						
				Sub	ject	Cod	le: k	KNC	301	
Roll No:										

## BTECH (SEM III) THEORY EXAMINATION 2021-22 COMPUTER SYSTEM SECURITY

Time: 3 Hours Total Marks: 50

Note: Attempt all Sections. If you require any missing data, then choose suitably.

## **SECTION A**

		= -	_ 0
	Qno	Questions	CO
	(a)	Why is Session Hijacking successful?	1
	(b)	What is the significance of Confinement Principle?	2
	(c)	How access control in UNIX is different from Windows?	3
	(d)	How many look-up zones are in DNS?	4
	(e)	Define Firewall and Its Uses?	5
		SECTION B	
2.	Atten	npt any <i>three</i> of the following: 5*3 =	
	Qno	Questions	CO
	(a)	What is Control hijacking with an example? Explain the term of Buffer	1
		overflow in Control hijacking.	
	(b)	Write short notes on System call Interposition.	2
	(c)	What is Cross Site Scripting? How to Protect against XSS Attacks.	3
	(d)	Explain the term Public key Cryptography in detail.	4
	(e)	Explain in brief about RSA Public key cryptography.	5
		SECTION C	
3.	Atten	apt any <i>one</i> part of the following: 5*1	= 5
	Qno	Questions	CO
	(a)	How Security System Should Evolve to Handle Cyber Security Threats	1
		and Vulnerabilities?	
	(b)	What is a Digital Signature? How Digital Signature Works?	4
4.	Atten	npt any <i>one</i> part of the following: 5 *1	= 5
	(a)	How to detect Rootkits? Explain how to prevent Rootkits	2
	(b)	Explain the need of Software fault isolation.	2
5.	Atten	npt any <i>one</i> part of the following: 5*1	= 5
	(a)	How Cross site request forgery attack works? Also mentioned example	3
		of CSRF Attack.	
	(b)	What's the difference between Browser Isolation and Remote Browser	3
		Isolation?	
6.	Atten	npt any <i>one</i> part of the following: 5*1	= 5
	(a)	Explain RSA algorithm. Perform Encryption and Decryption using	4
	100 3	RSA for p=11,q=13,e=7,m=9.	
	(b)	What is Symmetric and Asymmetric Key cryptography? Write their	4
_		respective advantages and disadvantages?	L
7.		npt any <i>one</i> part of the following: 5*1	
	(a)	How do you define Risk, Vulnerability and threat in the context of	5
	(1-)	Network Security?	- F
	(b)	What is a Network Intrusion Detection System? Explain its types.	5