

				Sub	ject	Cod	le: k	CNC	301
Roll No:									

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## 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.

Attan	SECTION A	= 10
Qno	npt all questions in brief. 2*5 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	
	npt any three of the following: 5*3 =	
Qno	Questions	CO
(a)	What is Control hijacking with an example? Explain the term of Buffer	1
(1-)	overflow in Control hijacking.	2
(b)	Write short notes on System call Interposition.	3
(c)	What is Cross Site Scripting? How to Protect against XSS Attacks.	-/-
(d)	Explain the term Public key Cryptography in detail.	4
(e)	Explain in brief about RSA Public key cryptography.	5
Atten	SECTION C  ipt any <i>one</i> part of the following:  5*1	= 5
Qno	Questions	CO
Qno (a)	Questions  How Security System Should Evolve to Handle Cyber Security Threats and Vulnerabilities?	
	How Security System Should Evolve to Handle Cyber Security Threats	CC
(a) (b)	How Security System Should Evolve to Handle Cyber Security Threats and Vulnerabilities?	1 4
(a) (b)	How Security System Should Evolve to Handle Cyber Security Threats and Vulnerabilities? What is a Digital Signature? How Digital Signature Works?	1 4
(a) (b) <b>Atten</b>	How Security System Should Evolve to Handle Cyber Security Threats and Vulnerabilities?  What is a Digital Signature? How Digital Signature Works?  apt any one part of the following:  5 *1	1 4 = 5
(a) (b) Atten (a) (b)	How Security System Should Evolve to Handle Cyber Security Threats and Vulnerabilities?  What is a Digital Signature? How Digital Signature Works?  Inpt any one part of the following:  Explain the need of Software fault isolation.  Inpt any one part of the following:  5*1	CC   1   4   = 5   2   2
(a) (b) Atten (a) (b)	How Security System Should Evolve to Handle Cyber Security Threats and Vulnerabilities?  What is a Digital Signature? How Digital Signature Works?  Inpt any one part of the following:  Explain how to prevent Rootkits  Explain the need of Software fault isolation.  Inpt any one part of the following:  The How Cross site request forgery attack works? Also mentioned example of CSRF Attack.	CC   1   4   = 5   2   2   = 5   3
(a) (b) Atten (a) (b) Atten	How Security System Should Evolve to Handle Cyber Security Threats and Vulnerabilities?  What is a Digital Signature? How Digital Signature Works?  pt any one part of the following: 5 *1  How to detect Rootkits? Explain how to prevent Rootkits  Explain the need of Software fault isolation.  pt any one part of the following: 5*1  How Cross site request forgery attack works? Also mentioned example	CC   1   4   = 5   2   2   = 5
(a) (b) Atten (a) (b) Atten (a) (b) (b)	How Security System Should Evolve to Handle Cyber Security Threats and Vulnerabilities?  What is a Digital Signature? How Digital Signature Works?  pt any one part of the following: 5 *1  How to detect Rootkits? Explain how to prevent Rootkits  Explain the need of Software fault isolation.  pt any one part of the following: 5*1  How Cross site request forgery attack works? Also mentioned example of CSRF Attack.  What's the difference between Browser Isolation and Remote Browser	CC   1   4   = 5   2   2   = 5   3   3
(a) (b) Atten (a) (b) Atten (a) (b) (b)	How Security System Should Evolve to Handle Cyber Security Threats and Vulnerabilities?  What is a Digital Signature? How Digital Signature Works?  Interpretation of the following:  Explain the need of Software fault isolation.  Interpretation of the following:  The Any one part of the following:  The Any one part of the following:  The Cross site request forgery attack works? Also mentioned example of CSRF Attack.  What's the difference between Browser Isolation and Remote Browser Isolation?	CC   1   4   = 5   2   2   = 5   3   3
(a) (b) Atten (a) (b) Atten (a) (b) Atten (b)	How Security System Should Evolve to Handle Cyber Security Threats and Vulnerabilities?  What is a Digital Signature? How Digital Signature Works?  Interpret any one part of the following:  Explain the need of Software fault isolation.  Interpret any one part of the following:  Figure 1. The security Threats and Vulnerabilities?  Signature Works?  Signature Works.  Signature Works.  Signature Works.  Sign	CC   1   4   = 5   2   2   = 5   3   3   = 5
(a) (b) Atten (a) (b) Atten (a) (b) Atten (a) (b)	How Security System Should Evolve to Handle Cyber Security Threats and Vulnerabilities?  What is a Digital Signature? How Digital Signature Works?  Inpt any one part of the following:  Explain the need of Software fault isolation.  Inpt any one part of the following:  S*1  How Cross site request forgery attack works? Also mentioned example of CSRF Attack.  What's the difference between Browser Isolation and Remote Browser Isolation?  Inpt any one part of the following:  S*1  Explain RSA algorithm. Perform Encryption and Decryption using RSA for p=11,q=13,e=7,m=9.  What is Symmetric and Asymmetric Key cryptography? Write their	CC   1   4   = 5   2   2   = 5   3   3   = 5   4   4
(a) (b) Atten (a) (b) Atten (a) (b) Atten (a) (b)	How Security System Should Evolve to Handle Cyber Security Threats and Vulnerabilities?  What is a Digital Signature? How Digital Signature Works?  In the system of the following:  Explain the need of Software fault isolation.  In the system of the following:  Explain the need of Software fault isolation.  In the system of the following:  Explain the need of Software fault isolation.  In the system of the following:  Explain the need of Software fault isolation.  In the system of the following:  Explain RSA difference between Browser Isolation and Remote Browser Isolation?  In the system of the following:  Explain RSA algorithm. Perform Encryption and Decryption using RSA for p=11,q=13,e=7,m=9.  What is Symmetric and Asymmetric Key cryptography? Write their respective advantages and disadvantages?	CC   1   4   = 5   2   2   = 5   3   3   = 5   4   4