

				Sub	ject	Cod	ie: K	ZINC	401
Roll No:									

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

Time: 3 Hours Total Marks: 100

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

SECTION A

1. Attempt all questions in brief.

2*10 = 20

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Qno	Questions	CO
(a)	What are the 3 aspects of security?	1
(b)	State the need of Computer Security.	1
(c)	What is the difference between Discretionary Access Control and Mandatory Access Control?	3
(d)	Give three benefits of IPsec?	4
(e)	Describe (A) Sniffing (B) Spoofing	1
(f)	Explain some of the weakness of Internet security.	5
(g)	Explain advanced anti-XSS tools	3
(h)	What is the problem of covert channel in VMM security?	2
(i)	Explain the terms: Cryptography, Cryptanalysis and Cryptology.	4
(j)	In the context of access control, what is the difference between a subject and an object?	3

SECTION B

2. Attempt any three of the following:

10*3 = 30

Qno	Questions	CO
(a)	Explain any four attacks on Computer System Security.	1
(b)	What is intrusion detection system? Explain host based IDS.	2
(c)	Define Cross site scripting (XSS).	3
(d)	Explain SSL Encryption. What are the steps involved in SSL: server	4
	authentication?	
(e)	What is firewall? Explain different types of firewalls. And also explain	5
	the working of packet filtering firewall.	

SECTION C

3. Attempt any *one* part of the following:

10*1 = 10

Qno	Questions	CO
(a)	What is control hijacking with an example? Explain the term of buffer	1
	overflow in control hijacking.	
(b)	What is Access Control list (ACL) and also defined what are the	1
	technologies used in access control?	

4. Attempt any *one* part of the following:

10 *1 = 10

Qno	Questions	CO
(a)	Write short notes on	2



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	I.	Software fault isolation	
	II.	VM based isolation	
(b)	Defin	e Network based IDS. What are its strengths and limitations.	2

5. Attempt any *one* part of the following:

10*1 = 10

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Qno	Questions	CO
(a)	Define web server threats? And explain 5 major web server threats in detail.	3
(b)	Discuss how vulnerabilities can be exploited in web applications.	3

6. Attempt any *one* part of the following:

10*1 = 10

Qno	Questions	CO
(a)	List and explain the key participants in secure electronic transaction	4
(b)	Explain and compare key exchange algorithm used in IP sec.	4

7. Attempt any *one* part of the following:

10*1 = 10

Qno	Questions	CO
(a)	What is Domain Name System? What is Static and Dynamic DNS Record?	\$
(b)	What is an Intrusion Detection System? How Does an IDS Enhance Security Management?	5
	73:26:21	
	02:08:2022	