



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**

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 authentication?	4
(e)	What is firewall? Explain different types of firewalls. And also explain the working of packet filtering firewall.	5

**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 overflow in control hijacking.	1
(b)	What is Access Control list (ACL) and also defined what are the technologies used in access control?	1

**4. Attempt any one part of the following: 10 \*1 = 10**

Qno	Questions	CO
(a)	Write short notes on	2



Roll No:

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

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

5. Attempt any *one* part of the following: 10\*1 = 10

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?	5
(b)	What is an Intrusion Detection System? How Does an IDS Enhance Security Management?	5