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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	3
30 30	Mandatory Access Control?	
(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	3
	subject and an object?	NV.

#### 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			
	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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İ		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

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