#### Bundelkhand Institute of Engineering & Technology, Jhansi Department of Computer Science & Engineering Class Test-1, (2023-24)

B.Tech 4th Semester (EE)

Subject Code: KNC-401

Time: 1 Hours

Subject Name: Computer System Security

TV B III	A. 178	arks:	

	Max. Marks. 10	50	
	Questions	Marks	CO
Att	empt any e questions:	1	
a	Explain Integer Overflow Attack and Aims of Security.	2.5	1
b	Write short note on: (a) Confinement problem (b) Error 404	2.5	2
c	What do you mean by Control Hijacking? Explain defenses against Control flow hijacking.		1
d	Differentiate Active and passive attacks.	2.5	1
/	Describe format string vulnerabilities.	2.5	1

## Bundelkhand Institute of Engineering and Technologies B.tech 2<sup>nd</sup> Year (ME, EC, CS, IT) 2022-2023 Computer System Security (KNC-301T)

	Total Marks: 10
Time: lhour	
	Roll No.
Note:	

1) Attempt any 4 questions.

2) All questions carry equal marks

	Attempt any five of the following questions	Marks: 4*2.5	Course Outcome
Ques. A	Differentiate Active attacks and Passive Attacks.		CO1
a.	Differentiate Active attacks and vases with its types.		CO2
b.	Describe Intrusion Detection System with its types.		CO2
c.	How do we solve Confinement Problems (levels)?		CO2
	What do you understand by Rootkits? Explain with its typ	ses.	
d.	Define Control Hijacking and Integer Overflow attacks.		CO1
e.	Define Control Hijacking and		

## Bundelkhand Institute of Engineering & Technology, Jhansi Department of Computer Science & Engineering Class Test-2, (2022-23)

B.Tech 3rd Semester (EE+CE+CH)

Subject Code: ICN C-301

Time: 1 Hours Subject Name: Computer System Security

Questions Max. Marks: 10		
Attempt any 4 questions:		CO
a What are the various web server threats? Explain in brief.		
	2.5	3
Define access control and types of	2.5	3
List tile dasie terminology need in anint	2.5	3
Describe cross site scripting and types of XSS attacks.	2.5	4
and types of ASS attacks.	2.5	3

#### Bundelkhand Institute of Engineering & Technology, Jhansi Department of Computer Science & Engineering Class Test-2, (2022-23) B.Tech 3rd Semester (CS+IT)

Subject Code: KNC-301

Subject Name: Computer System Security

Max. Marks: 10

CONTRACTOR OF THE PROPERTY OF THE PARTY OF T

Time: 1 Hours

nstructi	ion:	Attempt an questions.	Marks	CO
O.No.		Question		
1.	Att	tempt all parts of the following:	2	3
	a	What are the various issues in access control?	2	1 3
	b	Explain working of Browser isolation.	2	1 3
	c	Define Web Security with its goals.		
2.	At	townt all parts of the following:	2	
	1000000	I is the basic terminology used in cryptography.	2	
	b.	Explain the digital signature and its applications.		

## Bundelkhand Institute of Engineering & Technology, Jhansi Department of Computer Science & Engineering Class Test-2, (2022-23)

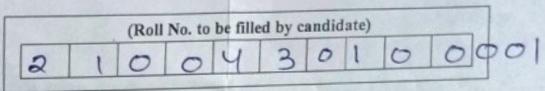
B.Tech 3rd Semester (ME+EC)

Subject Code: KNC-301

Subject Name: Computer System Security

Time: 1 Hours Max. Marks: 10

Question		CO
Attempt any 4 questions:	No.	
What are the various web server threats?	2.5	3
b Explain working of Browser isolation.	2.5	3
Define access control and types of access control.	2.5	3
List the basic terminology used in cryptography.	2.5	4
e Describe UNIX-Windows access control with all its permissions.	2.5	3



### B. Tech.

## THIRD SEMESTER THEORY EXAMINATION, 2022-23 KNC-301

## COMPUTER SYSTEM SECURITY

Time: 02Hours

Max Marks: 50

#### Note

- · Attempt all questions.
- Assume missing data suitably. Illustrate the answer with suitable sketch.
- 1. Attempt any four of the following:

- a. What is computer system security? Discuss various attacks in computer
- b. Differentiate between authorized and unauthorized access with suitable example.
- c. Differentiate between server side attacks and insider attacks.
- d. Differentiate between active attacks and passive attacks.
- e. What are the five steps to protect your hardware?
- 2. Attempt any two of the following:

CO2

[2x5]

- a. What is security model? Explain Lattice model in detail.
- b. What are the components of security policy?
- c. How can we define "Zero-day" vulnerabilities?
- 3. Attempt any two of the following:

CO<sub>3</sub>

[2x5]

- a. What is browser isolation? How does the browser isolation technology work?
- b. How to prevent buffer overflow attack?
- c. Differentiate between DSA and MAC with suitable example.

## 4. Attempt any two of the following:

CO4 [2x5]

a. What are web server threats in detail?

b. Explain RSA algorithm. Performs encryption and decryption using RSA algorithm for p=11, q=13,e=7,m=9.

 Differentiate between digital signature and digital envelope with suitable example.

5. Attempt any two of the following:

CO5 - [2x5]

a. What do you mean by DNS? Explain DNS rebinding attacks.

b. What is firewall? Explain its types, as well as its functionality.

c. What is fragmentation at network layer?

Max. Marks: 50

Time: 02 Hours

sketch.

(Roll No. to be filled by canc	iluate)
	99
	1 5 0

# B. TECH. FOURTH SEMESTER THEORY EXAMINATION, 2022-23 KNC 401 COMPUTER SYSTEM SECURITY

Note: Attempt all questions. All questions carry equal marks.

Assume missing data suitably. Illustrate the answer with suitable

7+6

Attempt any FOUR parts of the following: 4×3.5=14 CO
 a. What is computer system security? How it is useful in hardware simulation.

CO1

b. What is SSL? How it works?

CO1

Differentiate between spyware and ransomware with suitable CO1 example.

Differentiate between active attacks and passive attacks. CO1

e. What is smishing?

2. Attempt any *TWO* parts of the following: 2×6=12 CO
What is cross site scripting? Explain its type with suitable CO2
example.

b. What is VM based isolation?

what is the role of cryptography in computer system CO2 security? Differentiate between symmetric key cryptography and asymmetric key cryptography with suitable example.

Total Number of Printed Pages; 02	
3. Attempt any <i>TWO</i> parts of the following: 2×6=12 What is DSC? What is the procedure to create DSC?	CO CO3
b. Differentiate between OV SSL and EV SSL with suitable example.	e CO3
c. Differentiate between RSA and DSA with suitable example.	CO3
4. Attempt any <i>TWO</i> parts of the following: 2×6=12  a What is intrusion detection system? Explain with the help of suitable example.	
b. What is email security? What is the measure for email security?	I CO4
c. What is Dos? Explain any two types of DoS with suitable example.	e CO4