



PRESIDENCY UNIVERSITY

BENGALURU

Roll No.														
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Mid - Term Examinations – October 2025

Date: 10-10-2025

Time: 11.45am to 01.15pm

School: SOCSE	Program: B.Tech	
Course Code : CSN2500	Course Name: Firewalls and Internet Security	
Semester: V	Max Marks: 50	Weightage: 25%

CO - Levels	C01	C02	C03	C04	C05
Marks	24	26			

Instructions:

- (i) Read all questions carefully and answer accordingly.
- (ii) Do not write anything on the question paper other than roll number.

Part A

Answer ALL the Questions. Each question carries 2marks.

5Q x 2M=10M

1	What is a proxy firewall? Mention one advantage and one drawback.	2 Marks	L2	C01
2	Define confidentiality and availability in computer security with examples.	2 Marks	L2	C02
3	List and explain two types of firewall policies.	2 Marks	L2	C01
4	What is spoofing? Give a simple example.	2 Marks	L2	C02
5	What is the purpose of using HTTPS on websites?	2 Marks	L2	C02

Part B

Answer the Questions.

Total Marks 40M

6.	a.	Explain firewall biasing approaches (Positive, Negative, Neutral) with real-world examples and discuss their importance in security.	10 Marks	L2	CO 1
Or					
7.	a.	Describe different firewall deployment architectures with examples.	10 Marks	L2	CO 1

8.	a.	Explain phishing, eavesdropping, and social engineering attacks with suitable scenarios.	10 Marks	L2	CO 2
Or					
9.	a.	Describe web application vulnerabilities (XSS, CSRF, SQL Injection) and suggest two preventive measures for each.	10 Marks	L2	CO 2

10.	a.	Explain secure communication protocols: SSL, TLS and HTTPS with examples.	10 Marks	L2	CO 2
Or					
11.	a.	Discuss three real-world case studies of cyber attacks or secure protocol use (e.g., SQL Injection on Sony PSN, MySpace XSS worm, HTTPS in Gmail).	10 Marks	L2	CO 2

12.	a.	What is a Next-Generation Firewall (NGFW)? Explain its working and advantages.	10 Marks	L2	CO 1
Or					
13.	a.	Discuss the Clarke-Wilson security model and compare it briefly with Bell-LaPadula and Biba models.	10 Marks	L2	CO 1