



PRESIDENCY UNIVERSITY

BENGALURU

Roll No.														
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Mid - Term Examinations – October 2025	
Date: 09-10-2025	Time: 09.30am to 11.00am

School: SOCSE	Program: B.Tech	
Course Code : CCS3412	Course Name : Blockchain Security	
Semester: V	Max Marks: 50	Weightage: 25%

CO – Levels	C01	C02	C03	C04	C05
Marks	26	24	-	-	-

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	Define Distributed System with an example.	2 Marks	L1	C01
2	List the features of blockchain.	2 Marks	L1	C01
3	List the requirements for consensus mechanism.	2 Marks	L1	C01
4	Define Non repudiation.	2 Marks	L1	C02
5	Define digital signature in cryptography.	2 Marks	L1	C02

Part B

Answer the Questions.

Total Marks 40M

6.	a.	Describe the Byzantine generals problem.	10 Marks	L2	CO1
Or					
7.	a.	List and explain the benefits and limitations of blockchain.	10 Marks	L2	CO1

8.	a.	List and explain different types of blockchain.	10 Marks	L2	CO1
Or					
9.	a.	Explain different types of network system.	10 Marks	L2	CO1

10.	a.	Define shared key cryptography. Explain the cryptographic services.	10 Marks	L2	CO2
Or					
11.	a.	Describe Data encryption standard algorithm.	10 Marks	L2	CO2

12.	a.	Describe elliptical curve cryptography.	10 Marks	L2	CO2
Or					
13.	a.	Explain design of SHA-256 algorithm.	10 Marks	L2	CO2