Roll No.												

PRESIDENCY UNIVERSITY

BENGALURU

Mid - Term Examinations – MARCH 2026

Date: 10 – 03- 2026 **Time:** 02:00pm – 03:30pm

School: SOCSE	**Program:** B.Tech. Computer Science and Engineering (Blockchain)	
Course Code :CBC2001	**Course Name:** Introduction to Blockchain Platforms	
Semester: IV	**Max Marks**:50	**Weightage**:25%

CO - Levels	**CO1**	**CO2**	**CO3**	**CO4**	**CO5**
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	What is Bitcoin mining?	**2 Marks**	**L1**	**CO1**
2	What are public and private keys?	**2 Marks**	**L1**	**CO1**
3	Explain Gas in the Ethereum?	**2 Marks**	**L1**	**CO1**
4	Illustrate how smart contracts considered trustless and immutability?	**2 Marks**	**L2**	**CO2**
5	Infer how does ERC-20 ensure interoperability between tokens and wallets?	**2 Marks**	**L2**	**CO2**

Part B

Answer the Questions. **Total Marks 40M**

6.	**a.**	Explain the working of Bitcoin with a neat diagram of blockchain architecture.	**10 Marks**	**L1**	**CO1**
	b.	Explain in detail locking and unlocking script with an example	**10 Marks**	**L1**	**CO1**
		Or			
7.	**a.**	Explain Ethereum architecture and the role of Ethereum Virtual Machine (EVM).	**10 Marks**	**L1**	**CO1**
	b.	Describe smart contracts and their execution in Ethereum.	**10 Marks**	**L1**	**CO1**

8.	**a.**	Explain decentralized applications (DApps) with Ethereum as an example.	**10 Marks**	**L2**	**CO2**
	b.	Describe the complete lifecycle of an Ethereum transaction from creation to confirmation.	**10 Marks**	**L2**	**CO2**
		Or			
9.	**a.**	Explain how ERC-721 ensures uniqueness of digital assets.	**10 Marks**	**L2**	**CO2**
	b.	A startup wants to build a decentralized crowdfunding platform. Explain the DApp architecture.	**10 Marks**	**L2**	**CO2**