



PRESIDENCY UNIVERSITY

BENGALURU

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End - Term Examinations – May/June 2026

Date: 14 – 05- 2026

Time: 01:00pm – 04:00pm

School: SOCSE	Program: B.Tech	
Course Code: CBC2507	Course Name: Token Standards and Creation	
Semester: VI	Max Marks:100	Weightage: 50%

CO - Levels	C01	C02	C03	C04	C05	C06
Marks	24	24	14	12	14	12

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.

10Q x 2M=20M

1.	Define the concept of Tokenization.	2 Marks	L1	C01
2.	Define Tokenomics and its scope.	2 Marks	L1	C01
3.	Define the ERC-20 token standard.	2 Marks	L1	C02
4.	Identify and define ERC-1155 token standard.	2 Marks	L1	C02
5.	Define a Smart Contract in blockchain systems.	2 Marks	L1	C03
6.	State the purpose of the _mint() function in token contracts.	2 Marks	L1	C03
7.	Define token metadata in blockchain applications.	2 Marks	L1	C04
8.	Define a Blockchain Wallet and its purpose.	2 Marks	L1	C05
9.	Define the Token Approval Mechanism in blockchain.	2 Marks	L1	C05
10.	Define the Oracle Problem in blockchain systems.	2 Marks	L1	C06

Part B

Answer the Questions.

Total Marks 80M

11.	a.	Explain the concept of Tokenization using a suitable real-world analogy.	10 Marks	L2	CO1
	b.	Explain the stages involved in the Token Lifecycle.	05 Marks	L2	CO1
	c.	Analyze different Token Distribution Models and their implications.	05 Marks	L4	CO1
Or					
12.	a.	Explain Tokenomics with emphasis on incentives and economic structure.	10 Marks	L2	CO1
	b.	Explain the role of tokens in Decentralized Finance (DeFi).	05 Marks	L2	CO1
	c.	Analyze various real-world applications of Tokenization.	05 Marks	L4	CO1

13.	a.	Explain the ERC-20 token standard along with its core functions.	10 Marks	L2	CO2
	b.	Explain the ERC-721 token standard and its key applications.	05 Marks	L2	CO2
	c.	Compare ERC-20 and ERC-721 token standards based on functionality and use cases.	05 Marks	L4	CO2
Or					
14.	a.	Explain the ERC-1155 token standard and its features.	10 Marks	L2	CO2
	b.	Explain the BEP-20 token standard and its significance.	05 Marks	L2	CO2
	c.	Analyze the role of token standards in DeFi ecosystems.	05 Marks	L4	CO2

15.	a.	Explain Smart Contracts and their key characteristics.	10 Marks	L2	CO3
	b.	Apply the minting process in token-based smart contracts.	05 Marks	L3	CO4
	c.	Explain token metadata and the role of IPFS in NFT storage.	05 Marks	L2	CO4
Or					
16.	a.	Explain the structure of ERC-20 smart contracts.	10 Marks	L2	CO3
	b.	Apply the token transfer mechanism in smart contracts.	05 Marks	L3	CO4
	c.	Analyze the architecture of token metadata storage.	05 Marks	L2	CO4

17.	a.	Explain the architecture of Token Integration in blockchain systems.	10 Marks	L2	CO5
	b.	Apply the process of wallet-token interaction in decentralized applications.	05 Marks	L3	CO6
	c.	Analyze common vulnerabilities in token-based smart contracts.	05 Marks	L4	CO6

Or					
18.	a.	Explain the architecture of DApp-based token interaction.	10 Marks	L2	C05
	b.	Apply the workflow of NFT marketplaces in blockchain systems.	05 Marks	L3	C06
	c.	Analyze security considerations in token contracts with suitable examples.	05 Marks	L4	C06