



PRESIDENCY UNIVERSITY

BENGALURU

Mid - Term Examinations – November 2025

Date: 13-11- 2025

Time: 02:30pm – 04:00pm

School: SOM-PG	Program: MBA	
Course Code: MBA3119	Course Name: Blockchain and Cryptocurrency	
Semester: III	Max Marks:50	Weightage:25%

CO - Levels	CO1	CO2	CO3	CO4	CO5
Marks	24	21	5		

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 3marks.

5Q x 3M=15 Marks

1	Differentiate between commodity money and fiat money with examples	3 Marks	L2	CO1
2	List the role of nodes in a blockchain network.	3 Marks	L2	CO1
3	Narrate how block chain enhances supply chain transparency.	3 Marks	L3	CO2
4	Mention the purpose of “gas” in Ethereum transactions.	3 Marks	L2	CO1
5	Using an example, show how oracles enable real-world data integration in smart contracts.	3 Marks	L3	CO2

Part- B

Answer the Questions

2Qx10M = 20 Marks

6.	Explain the evolution of money from the barter system to cryptocurrencies	10 Marks	L2	CO1
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Or

7.	Explain the architecture of Ethereum, highlighting the roles of its key components such as the Ethereum Virtual Machine (EVM), nodes, and consensus mechanism.	10 Marks	L2	CO1
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8.	Apply the concept of tokenization to explain how blockchain can transform the real estate industry.	10 Marks	L3	CO2
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Or

9.	Demonstrate how a smart contract executes a real-world transaction, , using Ethereum’s execution flow.	10 Marks	L3	CO2
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Part- C

Answer the following questions

1Qx15M=15Marks

10.	<p>CASE STUDY: Bitcoin – Redefining Trust in the Global Economy</p> <p>In 2008, during the global financial crisis, an anonymous person or group under the name <i>Satoshi Nakamoto</i> published a whitepaper titled “<i>Bitcoin: A Peer-to-Peer Electronic Cash System.</i>” The vision was to create a digital currency that operates without banks or governments.</p> <p>Bitcoin uses <i>blockchain technology</i> — a decentralized ledger that records all transactions transparently and immutably. Its consensus mechanism, <i>Proof of Work (PoW)</i>, ensures that no single entity controls the system.</p> <p>Over the years, Bitcoin gained global recognition, with countries like El Salvador adopting it as legal tender. However, it also faces criticism due to its volatility, environmental concerns from mining, and lack of regulation. Many investors consider Bitcoin “digital gold,” while others question its sustainability as a currency.</p> <ol style="list-style-type: none"> 1. Explain how blockchain technology underpins Bitcoin’s operation. (5 Marks) 2. Apply the concepts of decentralization and immutability to illustrate how Bitcoin builds user trust. (5 Marks) 3. Analyze the potential environmental impacts of Bitcoin’s Proof of Work (PoW) mechanism (5 Marks) 	15 Mark	L2 L3 L4	CO1 CO2 CO3
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******* BEST WISHES *******