## LOYOLA COLLEGE (AUTONOMOUS) CHENNAI – 600 034

## B.Com. DEGREE EXAMINATION - ACCOUNTING AND FINANCE

## SIXTH SEMESTER - APRIL 2025

## **UAF 6504 – EMERGING TECHNOLOGIES IN FINANCE**

Date: 30-04-2025 Dept. No. Time: 09:00 AM - 12:00 PM	Max.: 100 Marks		
Section	n A		
Answer all by choosing the best option.	(40x1=40)		
1. Genesis block is			
<ul><li>a. Any block created by the founder</li><li>b. The last block of the Blockchain</li></ul>	<ul><li>c. The first block of a Blockchain</li><li>d. The first transaction in each block</li></ul>		
2. Bitcoin is based on blockchain.			
<ul><li>a. Private</li><li>b. Public</li></ul>	<ul><li>c. Public Permissioned</li><li>d. Permissioned</li></ul>		
3. Blockchain follows the continuum for its	s transactions		
a. Push b. Pull	c. Both Push and pull d. None of the above		
<ul><li>4. Where is a Blockchain's central server?</li><li>a. Origin of the blockchain</li><li>b. Service provider</li></ul>	c. There is no central server, it is distributed d. Ordered Node		
5. Blockchain solves the following problem of ca	ryptocurrencies.		
<ul><li>a. Anonymous transactions</li><li>b. Double Spending</li><li>6. The components of a block are</li></ul>	<ul><li>c. Currency transaction</li><li>d. None of the above</li></ul>		
<ul><li>a. Transaction, timestamp, hash of previous block</li><li>b. Transaction and ledger</li></ul>	<ul><li>c. Transaction and header</li><li>d. Transaction and digital ledger</li></ul>		
7. The component that ensures the successful tra	nsactions in the network is		
<ul><li>a. Incentives</li><li>b. Consensus algorithms</li></ul>	c. Blocks d. Ledger		
8. Which is called the digital gold?			
<ul><li>a. Ethereum</li><li>b. Bitcoin</li><li>9. What does UTXO stand for?</li></ul>	<ul><li>c. Hyperledger</li><li>d. Plastic money</li></ul>		
<ul><li>a. Unspent Trade Offer</li><li>b. Unspent Transaction xeroxed</li><li>Output</li></ul>	<ul><li>c. Unique Transaction Offer</li><li>d. Unspent Transaction Output</li></ul>		

10. Transaction 0 in every block of the bitcoin block	cchair	1
a. Miner fees	c.	Coinbase transaction
b. Does not have any input UTXO	d.	All of the above
11. Mechanisms that allow tokens and other digital a used in a separate blockchain called	assets	s from one blockchain to be securely
a. Parachain	c.	Small blocks
b. Sidechain	d.	Sideblocks
12. A hacker can alter percentage of a block.		
a. 49	c.	100
b. 51	d.	None
13. A blockchain split is called a		
a. Partition	c.	Halfblock
b. Fork	d.	Partial block
14. The alternatives of Proof of Work are		
a. Proof of Distribution	c.	Proof of Network
b. Proof of stake	d.	Proof of Ledger
15. PBFT stands for		
a. Public Bond Fund Transfer	c.	Principal Block First Transfer
b. Practical Byzantine Fault Tolerance	d.	Private Block Funds Transfer
16. Blockchain does not provide?		
a. Security	c.	Fault tolerance
b. Immutability	d.	Fast transaction time
17. Nonce		
a. Null bitcoin	c.	Prevents Double Spending
b. A Hash Function	d.	Merkle tree
18. A hot wallet is		
a. Connected to Internet	c.	Connected to centralized systems
b. Not connected to Internet	d.	Wallet with high temperature
19. Ethereum virtual machine is powered by		
a. Gas	c.	Transactions
b. Electricity	d.	Ledgers
20. Proof of stake is a		
a. Ledger	c.	Incentive mechanism
b. Consensus algorithm	d.	Transaction
21. The cryptocurrency TrueUSD is built using the		
a. RSA Protocol	c.	Networking protocol
b. Substitution protocol		True Token protocol
22. Quorum is an Ethereum based		
a. Enterprise blockchain	c.	Consortium blockchain
b. Collaborative blockchain	d.	Consensus algorithm

23. The process of converting an information into a se	ecret message is called
<ul><li>a. Encryption</li><li>b. Decryption</li></ul>	<ul><li>c. Substitution</li><li>d. Conversion</li></ul>
24. The software that creates and stores the private ke called a	eys and the associated public keys is
<ul><li>a. Wallet</li><li>b. Record</li><li>25. The M and N of a multi-sig wallet denote the num</li></ul>	c. Relation d. Smart contract hber of
<ul><li>a. required signers and authorized signers</li><li>b. authorized signers and required signers</li><li>26. Precursor of bitcoin is</li></ul>	<ul><li>c. available signers and authenticated signers</li><li>d. authorized and authenticated signers</li></ul>
<ul><li>a. Digicash</li><li>b. Paytm</li></ul>	c. Amazon wallet d. Google wallet
27. The process of supplying computing power to sol provide network security with an expectation of a	<u> </u>
<ul><li>a. Warehousing</li><li>b. Mining</li></ul>	<ul><li>c. Data mining</li><li>d. Data manipulation</li></ul>
28. The address where the coins or tokens are sent an	d received
<ul><li>a. Public address</li><li>b. Private address</li></ul>	<ul><li>c. Group address</li><li>d. Community address</li></ul>
29. The type of asset that anyone can possess by volu without having to trust any third party	ntarily joining any public blockchain
<ul><li>a. Cryptoassets</li><li>b. Tangible assets</li><li>30. Hash ID has</li></ul>	<ul><li>c. Intangible assets</li><li>d. Fixed assets</li></ul>
<ul><li>a. 512 characters</li><li>b. 1024 characters</li><li>31 signs the transactions in a block</li></ul>	c. 64 characters d. 256 characters
<ul><li>a. Endorser</li><li>b. Committer</li><li>32 validates the transactions in a block</li></ul>	c. Consenter d. Miner
<ul><li>a. Endorser</li><li>b. Committer</li><li>33. Internal controls act for</li></ul>	c. Consenter d. Miner
<ul><li>a. Recording</li><li>b. Custody</li><li>34. The process of reducing the storage size of the en</li></ul>	c. Authority d. All the above tire copy of the blockchain is called the
<ul><li>a. Block turning</li><li>b. Block recording</li></ul>	<ul><li>c. Block monitoring</li><li>d. Block pruning</li></ul>

	<ul><li>a. Horizontal partitioning</li><li>b. Vertical partitioning of</li><li>36. The temporary access code</li></ul>	data d.	Linear partitioning of data  Multiple partitioning of data  or hardware token is called a	
	<ul><li>a. Two Factor Authenticat</li><li>b. Two Factor Access</li><li>37. Crypto assetsrepresentation</li></ul>	ion c.	Two File Access Two File Authentication	
	<ul><li>a. Price indices</li><li>b. Market capitalization</li><li>38. Transaction throughput is n</li></ul>	c. d.	Exchanges Browsers	
	<ul><li>a. Number of transactions</li><li>b. Number of transactions</li><li>39. The contracts that are both interpretation are called the</li></ul>	per minute d. human and machine reada	Number of transactions per hour Number of transactions per day ble to aid in dispute resolution and	
	<ul><li>a. Richardson contracts</li><li>b. Ricardian contracts</li></ul>		Rich contracts Raw contracts	
	40. The method to add the hash	into the bitcoin blockchai	n is called the	
	<ul><li>a. Anchoring</li><li>b. Inserting</li></ul>		Stabilizing Hashing	
		Section -B		
answer	any 3 questions from the follo	owing.	(3x20=	60)
	41. List and explain the types of	f cryptowallets.		
	42. What is a Howey Test? Exp	olain how ICOs, STOs and	IEOs are subject to Howey's test.	
	43. Explain Smart contracts. He	ow does it ensure security	of cryptocurrency transactions?	
	44. List and explain the various	s new fraud schemes that a	re floated to challenge the security assur	ance
	of cryptocurrency transactions.			
	45. Explain how technical cont	rols form a part of the inte	rnal controls in a blockchain.	
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35. Shards are