10/06/2025 BE CSE-AIML SEM-VII C-SCHEME BLOCKCHAIN TECH. QP CODE: 10087326

(3 110	(Total Walksou)	200
<i>'</i>	-1.Question No. 1 is compulsory. 2. Answer any three out of the remaining questions. 3. Assume suitable data if necessary. 4. Figure to the right indicates full marks.	145°
	Trigate to the right indicates run marks.	
Q1.	Attempt the following (any 4):	
a.	What is distributed ledger? Explain its need in blockchain.	5 5
b.	What is Bitcoin Script? Explain pay to public key hash(P2PKH) with suitable example	5
c.	Differentiate between ERC20 and ERC721	5
d.	Write a program in solidity to check given number is prime or not	\$ 5
e.	Explain types of blockchain.	5
Q2.	Attempt the following:	
a.	Compare following consensus protocols PoW,PoB,PoS,PoA	10
b.	Explain different types of cryptocurrencies in detail	10
Q3.	Attempt the following:	
a.	Describe RAFT consensus protocol.	10
b<	With suitable diagram explain block structure of bitcoin	10
Q4.	Attempt the following:	
a.	Explain Hyperledger Fabric in detail	10
b. 🔏	What are the challenges faced by Blockchain in the Education sector?	10
Q5.	Attempt the following:	
a.	Explain components of Ethereum.	10
b. A	What are pros and cons of ICO and IPO?	10
Q6.	Write short notes (any two)	
a.	Defi A A A A A A A A A A A A A A A A A A A	10
b.	UTXO model in Bitcoin	10
c.	Application of Blockchain in Supply chain management	10

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