## KADI SARVA VISHWAVIDHYALAYA B.E. Semester VII Examination – March – 2023 CT703D-N Blockchain Technology

	E: 28/03/2023 TIME: 10:0	0 am to 1:00 pm TOTAL N	MARKS: 70
1	Answer each section in separate	engwer sheet	
2	Ose of scientific calculator is per	mitted	
3	All questions are Compulsory		
4	Indicate clearly, the options you	attempt along with its respective question	number.
5	Use the last page of main supplen	nentary for rough work.	55
		SECTION - I	
Q-1 A	Explain the types of Blockchain.		5
E	Compare Centralized, Decentralize	ed and Distributed systems.	5
C	What are the characteristics of cry	ptographic hash function.	5
		OR	
C	Explain Merkle tree.		5
Q-2 A	Write short note on digital signature		9 3 24
В	and an angitud signatur		5
	, and a position grant and ex	OR	5
Α	Write short note on Bitcoin.	and the second	
В		rint	5 5
e Per	in the second se	TPG	5
Q-3 A	Explain Genesis block and list the va	arious components of a Block in a Blockchain.	
В	Explain Avalanche effect.	mous components of a block in a blockchain.	5 5
		OR	3
Α	Explain distributed ledger in brie	f.	5
В			5
	•	SECTION - II	
Q-4 A	Explain the term consensus in block	chain.	.5
В	Write short note on mining.		5
С	Explain the term orphan block.		5
		OR	
С	Explain the concept of mining pool.		5

054	Write short note on proof of work mechanism.			5
Q-5 A				5
В	Explain sybil and DDOS attack.	OR	,	·5
Α	Write short note on proof of stake mechanism.  Explain the benefits and challenges of a miner.			
В				5
D				_
Q-6A B	and the second s			5
				5
Α	Explain proof of burn mechanism.			5
-	Explain Byzantine General problem.			5
В	Extilatil Byzantine denotal production			