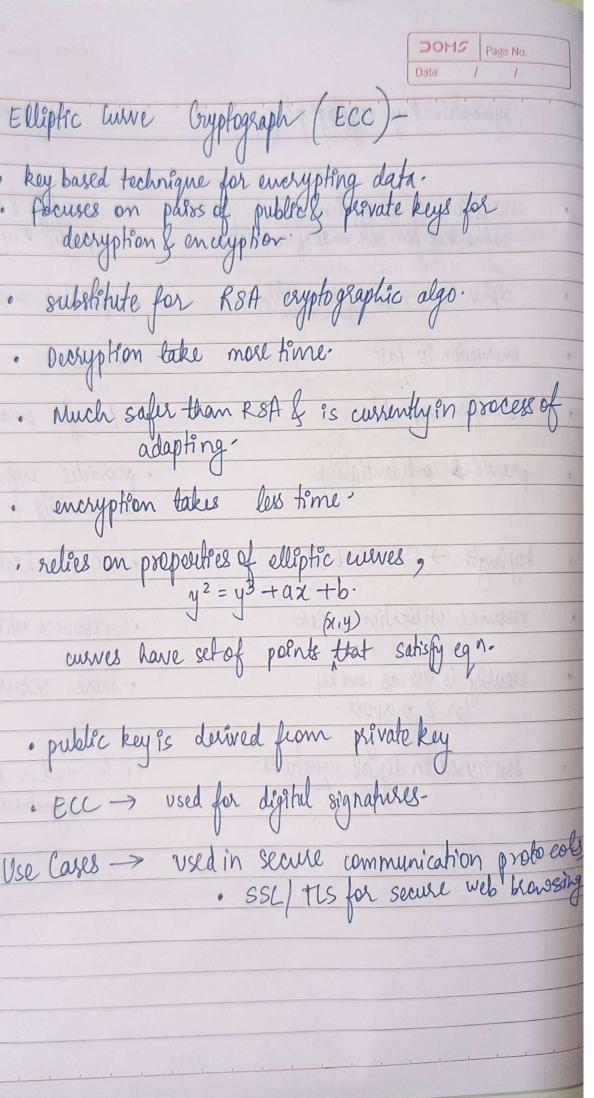
Page No. U-1 (BT) Blockchain -> advanced database mechanism that allows transparent information sharing within business network · stores data in blocks that are linked together in a chain · Imp concepts -> Data in block · Blocks Branches · Node create new blocks on chain · Miner through process -> mining, Blockchain Appln · Grypto currency · Cylousecurity . According to record beeping . Supply Chain , Healthcall o Antomobile · browt. · sports. · E-commerce

Symmetric key cryptography encryption & decryption use same key for both ends of convesation. · Iwo diff keyspublic key & private key. cipher text -> Same alsmaller (than original) · Ligher text > same of larger (orginal) encryption is fast · slow transfer large data. · transfer small amt of date provides confidentiality · provides confidentiality, authenticity of non-repudation ky length > 128 or 256 biff e 2048 os higher resource utilization is less resource whilization is high security is less as one ky for 2 purpose. · male secure-Is used in digital signatures. Isn't used in digital signatures. VSCOLIN SCOULE communication over lot south web how



adapting-

DOMS Page No.					
Date / /					
Grypto graphic Hash Frinchons-					
· cryptographic tool -> transform input data ento fixed -sixe String of characters.					
String of Margaret data ento fixed -sixe					
sing of manacious.					
· verify data integrity & oxette ligital signature					
· unique hash -> each unique in t					
· uneque hash -> each uneque input.					
· small change in input > vastly different bash.					
Itali and the same was					
· Hash -> Proevsibles					
Donald All of the first th					
· Popular hash algo -> SHA -256 & MD54.					
· used to passival storage to make					
· used to password storage to prefect uses data					
· resistent to collision (same hash fordiff inputs)					
The state of the s					
Dura verification is strong to strong the strong to the st					
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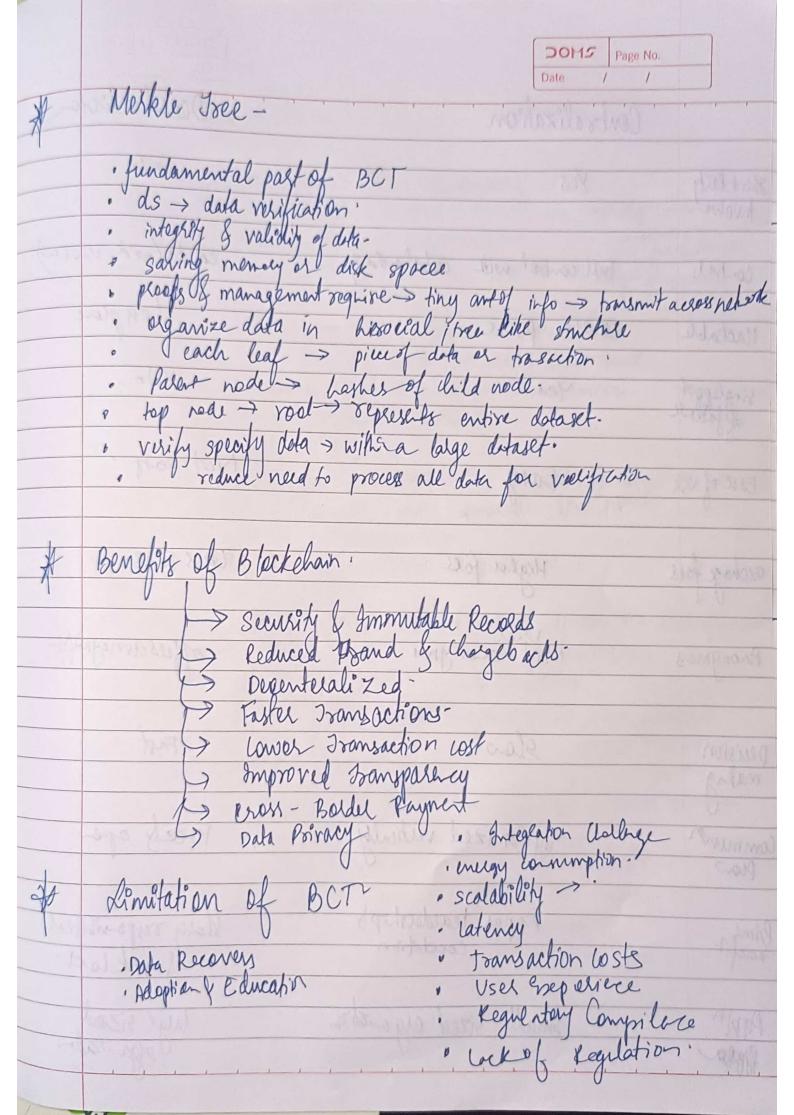
o Podrant Para

SHA (256) - Secure Hash Algon cryptographic hash function.

data integrity & security. input data & produces 256 fixed size hash value is isoveressible, can't deduce input from hash-· change in input -> diff hash.

verify data integrity. passibold storage & digital signature · quick & reliable way to verify data
· used in reproved -> Bit care · crucial for envelope security & toutwork nells Digital Signatule Algo · assymteric cryptographic algo. e involves pair of public & private kay · signature -> prove authentiety of rasq Benefits -> Message Authentication > Integrity verification · Less storage Won-repudiation · Patent Force Steps -> Key Generation Signature "1-11 Key Distribution Signature Verfich

DOM5



DOM5 Page No. Decent valization Centralization third fally Yes Full control with control with Cantolwith usela Control Less place. more prae Mackalole No. Singleperit Yes Not son Ease of use Higher fees Less Fees. exchage fees Not anonyme offels arraymy. Anonymes Fast Slow Decision maly systemized vertically Trees open Communa Shaling responsibilities fronklass Preper leadelships cooldston Prime large sized small sized organish Appla poso

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	Blockshain Layels:			
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1)	Appin & Presentation layer of toplayer of outer when the service & applicability	BT		
_	o user interpret y appropriate.	• 01	idge technoa	looked
	· wallet management, small carboet exection o directly short with vorious BC activite	٨٠ ,	complexity of	gel.
	a with of white Be activities	's 'ad	oph & usabili	7
2)	Data Layer · block chains data stroche	reside	8 -	
-)	· champf blocks -> getof			
	· deta stolage & retreval m	echanism	2	
	· distributed databask			
1	A to be south to sull in the second of the	balle	acouste of he	1.26
3)	Newolk layer: handles commucin & control peer to peer connection oxchange info	LID h	edd:	
	peer to peer america	1/2		
	· Biltoin Nelwork protocol			
1				1. 11
4)	Conserss layer. • all nodes on network	agree	on state of	(ockel
1	o rules & mechanisms for	h valida	ting faddie	
	new transport	John Lower	0 [] 0] 0]	
	· prevents double spading	of scource	malialous	
>	meastree or hardrane layer	gusi	actors.	
5)	> involves deployment maaghet	of ned	y of sewer	18
	highly spealized & engery int	itre		
	I data center or vides necessar	1 interpre	de	
	() hook snood steenet > asneral	for new	des.	
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