National Forensic Sciences University School of Cyber Security and Digital Forensics Course Name: M.Sc. Digital Forensics and Information Security (Batch:21-23)

Course Name: M.Sc. Digital Forensics and Inter- Semester - III	Time: 11.30 am to 01.00 pm
Subject Code: CIMSDES SIII P3	Date: 21-11-2022
Subject Name: Blockchain and Cryptocurrencies Exam: Mid Semester Examination (NOV - 2022)	[24,Marks]
Q1. Answer the following questions in short.	
Of. Answer the following questions in short. Define Blockchain. Differentiate between public and	private Blockcham
What is Sybil attack? How it can be prevented in Blo	ockchain?
Explain PoS with example	(60)
Explain Nakamoto Consensus Skippel	
What is Smart Contract? Explain it with example	
What is Proof of Work? Explain in brief	
Q2. Answer the following questions in detail. (Atter	mpt any 2) [16 Marks]
hard fork with soft fork in Du	1.(1
2) What is Ethereum 2.0? Explain DAO and DAO atta	ack (Partially attempted)
3) What is Gas and Gas limit? Explain the concept of	digital organic
Answer in one Word/Sentence	en this [10 Marks]
Name the term for when a Blockchain splits	lock
2. What is the maximum number of bitcoins that	will ever be created?
validation, mining, block creation, and smart	contract execution.
b) EVM	
c) Ethereum full node	Contract
c) Etheream ran node	
5. For the simple symmetric key example disc	cussed in the lecture, it is easy to
derive the secret key from the encrypted data	i. True or Falge
What powers the Ethereum Virtual Machine	
a. Gas & Ether c. Bitcoin d. Block l. How many Ethers are issued per block in ger	
What is the name given to the fork which wi	Il introduce Ethereum 2.0? 59
a Gwei h wei c. Twei d. Ether	11t into Etheroum and Ethereum
10. What caused the Ethereum blockchain to	spit into Ethereum and Ethereum
Classic?	