(Tin	ie: 2½ Hours)	[Total Marks: 60]
N. B	 (1) <u>All</u> questions are <u>compulsory</u>. (2) Make <u>suitable assumptions</u> wherever necessary and <u>state 1</u> (3) Answers to the <u>same question</u> must be <u>written together</u>. (4) Numbers to the <u>right</u> indicate <u>marks</u>. (5) Draw <u>neat labeled diagrams</u> wherever <u>necessary</u>. (6) Use of <u>Non-programmable</u> calculator is <u>allowed</u>. 	the assumptions made.
1. a. b. c. d.	Attempt <u>any two</u> of the following: Explain different use cases of block chain. Explain the different layers of Blockchain. How does game theory influence blockchain? What is Off-chain computation and sharding?	12
2. a. b. c. d.	Attempt <u>any two</u> of the following: Specify the Characteristics of Ethereum. Why Gas is important? What are Complementary currency and its different purpose? What is testing and formatting of Solidity programming language	12
3. a. b. c. d.	Attempt <u>any two</u> of the following: What is Hyperledger Fabric? Give its importance over simple blow What is the Hyperledger composer? Give its advantages. Briefly describe the working of smart contracts. Explain "Cryptocurrency Is A Measure of Time".	12 ckchain.
4. a. b. c. d.	Attempt <u>any two</u> of the following: Differentiate between Faster Blocks and Stale Blocks. How Ethereum and Bitcoin use Trees? Enlist applications based on crypto economics. How speed of blocks play an important role in mining?	12
5. a. b. c. d.	Attempt <u>any two</u> of the following: What are decentralized applications? Explain public and private Blockchain. Does blockchain involves third party? If no, explain. What are Dapp?	12

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