Reg. No.: 2013(E1107)
Name: 95rahin At.



Continuous Assessment Test CAT – II – October 2023

Programme	R Took Specialism				
<u> </u>	: B.Tech Specialization in Computer Science (Core)	Semester	:	Fall 2023-2024	
Course Title	: Blockchain and Cryptocurrency Technologies	Code		CSE1006	
		Class Nbr(s)		CH2023240100188 CH2023240100190	
T:	: Dr. R. Prabhakaran & Dr. Prasad M : 1 ½ Hour	Slot		E1+TE1	
	. 1 /2 XIVUI	Max. Marks		50	

	1 /2 Hour		Max. Marks	: 50				
Answer All questions								
Q.No.	Sec.	Question Description			Marks			
1.	phases and procedure decision to transfer E recording of the trans	ssume that you are providing a detailed walkthrough of a standard Bitcoin transaction to be meone who has little to no experience with cryptocurrencies. Please elucidate the primary passes and procedures encompassing a typical Bitcoin transaction, commencing with a user's excision to transfer Bitcoin to another user's wallet and culminating in the confirmation and coording of the transaction on the blockchain. Make sure to incorporate crucial terminology, eps, and concepts as you elucidate this process.						
2.	transactions and add t Bitcoin network's se network relies on mi	onsider you're leading a seminar for a group of technology enthusiasts eager to understand intricacies of Bitcoin mining. Describe, step by step, the process by which miners validate insactions and add them to the blockchain. Elaborate on the critical role miners play in the technology in the step on miners, and how their efforts contribute to the overall functioning and stworthiness of the cryptocurrency.						
3.	scripting language use their role in creating of Bitcoin Scripts can be	g a workshop on the technical aspointerested in blockchain technology of in Bitcoin transactions. Describe houstom transaction conditions. Illustrate used for various purposes, such and discuss their significance in enhance	gy. Explain Bitco ow Bitcoin Scripts rate with real-worl	oin Scripts, the work, including d examples how	10			
5.	Bitcoin protocol. Subsaddress these limitation Provide real-world exa effectively.	articipating in a panel discussion on conference. Elaborate to the audience equently, discuss potential improves and enhance Bitcoin's performant mples or analogies to help the audience.	e the key limitation ements or innovatice, scalability, and lience grasp these	ns of the current tions that could d overall utility. concepts more	10			
٥.	involvement of mining miners to ensure its su- and adding transactions	s to send 1000 BTC to Uma, and he in, Illustrate in detail the journey of g pools, mining incentives, and peccessful processing. Discuss the role to the blockchain, the incentives materials are considerations that miners	this transaction, otential strategies to of mining pools	considering the employed by in confirming	10			

transaction, and any strategic considerations that miners might take into account when

selecting which transactions to include in the blocks they mine.