

Honors V
K. J. Somaiya Institute of Technology, Sion, Mumbai-22
(Autonomous College Affiliated to University of Mumbai)

Nov – Dec 2023

(B.Tech) Program: **All Branches(Honours)**_Scheme: **II**_

Examination: **TY** Semester: **V**

Course Code: **_HBCC501_** and Course Name: **_Bit Coin and Crypto Currency**

Date of Exam: 12/12/2023

Duration: 2.5 Hours

Max. Marks: 60

Instructions:

- (1) All questions are compulsory.
- (2) Draw neat diagrams wherever applicable.
- (3) Assume suitable data, if necessary.

		Max. Marks	CO	BT level
Q1	Solve any six questions out of eight:	12		
i)	Describe is genesis block	02	CO1	Understand
ii)	Discuss types of nodes	02	CO2	Understand
iii)	Describe Block chain Forks	02	CO2	Understand
iv)	What is bitcoin?	02	CO3	Understand
v)	Discuss Transaction Fees	02	CO4	Understand
vi)	Discuss Bitcoin Addresses	02	CO4	Understand
vii)	Describe node roles	02	CO5	Understand
viii)	Discuss cryptocurrency.	02	CO6	Understand
Q2	Solve any four questions out of six.	16		
i)	Draw and explain the structure of Genesis block.	04	CO1	Understand
ii)	Discuss Proof of Burn Consensus mechanism.	04	CO2	Understand
iii)	Discuss the history of Bit coin	04	CO3	Understand
iv)	Discuss Wallets and Transactions.	04	CO4	Understand
v)	Explain Simplified Payment Verification (SPV) Nodes.	04	CO5	Understand
vi)	Discuss Internet of Things using Blockchain with Real Time Example.	04	CO6	Apply
Q.3	Solve any two questions out of three.	16		
i)	Discuss Supply chain using Blockchain with Real Time Example.	08	CO6	Apply
ii)	Draw and explain the Extended Bitcoin Network for two branches of one organization.	08	CO5	Understand
iii)	Describe Cryptography with neat diagram also Compare Private and Public Key cryptography.	08	CO4	Understand

