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

April – May 2023
(B.Tech.) Program:_Honours Degree__Scheme: **II**
Examination: **TY** Semester: **VI**
Course Code: **HBCC601** and Course Name: **Block chain Platform**

Date of Exam: 24/05/2023   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
Q 1	**Solve any six questions out of eight:**	**12**		
i)	What is the use of blockchain platform?	2	CO1	Understand
ii)	What are the types of Blockchains?	2	CO2	Understand
iii)	Explain Shading of Chain.	2	CO3	Understand
iv)	Explain Mining in Ethereum blockchain.	2	CO3	Understand
v)	What is the private blockchain structure?	2	CO4	Understand
vi)	What is a Hyperledger in blockchain?	2	CO5	Understand
vii)	Explain Chain Codes in Hyperledger Fabric.	2	CO5	Understand
viii)	Explain features of Corda blockchain?	2	CO6	Understand
Q.2	**Solve any four questions out of six.**	**16**		
i)	Explain advantages and disadvantages of blockchain platform.	4	CO1	Understand
ii)	Explain Limitation of public blockchain.	4	CO2	Understand
iii)	Explain Dapp Architecture.	4	CO3	Understand
iv)	Explain role of Smart Contract in Private Blockchain with diagram.	4	CO4	Understand
v)	Explain Hyperledger Fabric Architecture.	4	CO5	Understand
vi)	Differentiate Corda and Hyperledger?	4	CO6	Analyze
Q.3	**Solve any two questions out of three.**	**16**		
i)	Draw and explain Blockchain Infrastructure?	8	CO1	Apply
ii)	Draw and explain Architecture of ethereum.	8	CO3	Apply

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iii)	How to Creating Hyperlegder network. Give advantages and disadvantages.	8	CO5	Apply
Q.4	**Solve any two questions out of three.**	**16**		
i)	Explain Real time public blockchain application with architecture. Explain advantages and disadvantages of public block chain.	8	CO2	Understand
ii)	Explain the Raft Consensus Algorithm? Give benefits.	8	CO4	Understand
iii)	Draw and Explain CORDA Framework.	8	CO6	Apply