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

Nov – Dec 2023
B.Tech Program - Honours in Blockchain Scheme I
Examination: LY   Semester: VII
Course Code: HBCC701 and   Course Name: Block chain Development

Date of Exam: 13/12/2023, Wed	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 node and miner in blockchain?	2	CO1	U
ii)	Give advantages of Solidity Programming.	2	CO2	U
iii)	Explain ERC721 Tokens.	2	CO3	U
iv)	Explain role of Ganache.	2	CO4	U
v)	What does Geth mean in Crypto?	2	CO4	U
vi)	What are the main services offered by Hyperledger fabric?	2	CO5	U
vii)	List Benefits Of Hyperledger Fabric.	2	CO5	U
viii)	What is the biggest risk of blockchain?	2	CO6	U
Q.2	**Solve any four questions out of six.**	**16**		
i)	Explain swarm and whisper.	4	CO1	U
ii)	What is Gas? How Are Gas Fees Calculated?	4	CO2	U
iii)	Compare ICO and IDO? .	4	CO3	An
iv)	Explain role of Metamask in Dapp Architecture.	4	CO4	U
v)	Explain Peers and Channels in Hyperledger Fabric Network.	4	CO5	U
vi)	Explain Pros and cons of blockchain for ERP.	4	CO6	U
Q.3	**Solve any two questions out of three.**	**16**		
i)	Draw and explain Ethereum virtual machine.	8	CO1	A
ii)	Explain Function Visibility in Solidity Programming.	8	CO2	U

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iii)	Explain use cases of smart contract. Why would someone use a smart contract?	8	CO3	U
Q.4	**Solve any two questions out of three.**	**16**		
i)	Explain Components of DAPP architecture.	8	CO4	U
ii)	Explain advantages and disadvantages of Hyperledger Fabric.	8	CO5	U
iii)	Explain Benefits and Applications of Blockchain in IoT.	8	CO6	U

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