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Even Semester Examination 2023 (MOOC)

Course Name: Blockchain and Applications
Paper Code: BTCSE MOOCS 1/BTCSE MOOCS 1 (Lateral Entry)
Time: 3 Hours

Maximum Marks: 75

Follow proper numbering for answering the questions.

Q. No.	Questions	Marks	CO	BL
Section A (7×5=35)				
<i>All questions are compulsory.</i>				
1	Briefly explain Blockchain with the help of diagram.	5	CO1	L1, L2
2	Differentiate between Hash Function and Message Digest.	5	CO2	L2, L4
3	What are the requirements of Digital Signature?	5	CO1	L1, L2
4	Differentiate between permissioned vs. permissionless blockchain.	5	CO2	L4
5	Explain Smart Contracts with suitable diagram.	5	CO4	L1
6	What do you understand by Decentralized Identity Management?	5	CO2	L1, L2
7	Write short notes on Bitcoin.	5	CO3	L1
Section B (4×10=40)				
<i>Attempt any Four questions</i>				
1	Explain the elements of Blockchain Technology with suitable diagram.	10	CO3	L1, L2
2	Explain Digital Signature Standard with diagram.	10	CO2	L2
3	Discuss different types of permissioned and permissionless blockchains.	10	CO3	L4
4	Discuss evolution of blockchain technologies with chronological events.	10	CO4	L1, L3
5	Explain the importance of Blockchain Technology in Healthcare and Smart Cities with suitable assumptions and figures.	10	CO3	L3
6	Write a briefly on Hyperledger, Corda and Ethereum. Also write a comparative for all of them.	10	CO5	L4

BL-Bloom's Taxonomy Levels (1- Remembering, 2- Understanding, 3- Applying, 4- Analysing, 5- Evaluating, 6- Creating)