

Datta Meghe College of Engineering, Airoli

Department of Information Technology

Course Name: BDLT (R-19) Course Code: ITC801

Year of study: B.E. Semester: VIII Academic Year: 2024-25

Assignment-1 (Questions with BT Level)

Qu.1 is compulsory for all, rest 8 questions even roll no. students will attempt even numbered questions and odd roll nos. will attempt odd numbered questions.

Submission by 21/2/2025

Q. No.	Question	COs covered	BT level
Qu.1	What is Merkle tree? Explain it's structure and also explain its application in blockchain.	ITC801.1	L2
Qu.2	Enlist and explain the features of Blockchain Technology.	ITC801.1	L2
Qu. 3	What is P2P network? Explain how communication takes place on such network.	ITC801.1	L2
Qu.4	What are wallets in blockchain? Discuss it's features and significance.	ITC801.1	L2
Qu.5	What is Blockchain? Explain it's working.	ITC801.1	L2
Qu.6	Explain the concept of consensus and it's importance in blockchain. Enlist various consensus mechanisms used in blockchain.	ITC801.1	L2
Qu.7	On a Bitcoin Blockchain how the balance bitcoins are computed for an account.	ITC801.1	L2
Qu.8	What is Simplified Payment Varification (SPV)? Discuss how the mechanism works.	ITC801.2	L2
Qu.9	Explain the bitcoin mining with the help of neat diagram.	ITC801.2	L2
		ITC801.2	L2