



PILLAI COLLEGE OF ENGINEERING, NEW PANVEL
(Autonomous) (Accredited 'A+' by NAAC)

END SEMESTER EXAMINATION

May 2023

BRANCH: Information Technology

SEM VIII

Subject:- Blockchain and DLT

Time: 03.00 Hours

Max. Marks: 80

Date: 02/05/2023

N.B 1. Q.1 is compulsory

Subject Code:ITC801

2. Attempt any three from the remaining four questions.

3. Each Question carry 20 marks.

Q.1.	Attempt All	Marks
a)	Differentiate between blockchain and ledger	5
b)	What is Ganache? Give Advantages of using Ganache	5
c)	What is a crypto wallet? Explain types of wallet	5
d)	Explain pay to script and multisig addresses	5
Q.2.	Attempt All	
a)	Explain concept of Merkle tree and its use in Blockchain	10
b)	Explain how a bitcoin address is created.	10
Q.3.	Attempt All	
a)	Write a smart contract in solidity for Employee management. Display Employee Name, Employee ID, Incentives and Net Salary	10
b)	What is PAXOS. How failures of different nodes handled in PAXOS	10
Q.4.	Attempt All	
a)	Explain life cycle of a smart contract	10
b)	Explain in detail each component of a block	10
Q.5	Attempt All	
a)	What is ERC20? Explain in detail and compare it with ERC721	10
b)	Discuss in detail with example the advantages of using blockchain technology in the area of healthcare.	10