UNIVERSITY OF MUMBAI
M.Sc. Information Technology
Practical Examination First Half (2023)
PSIT4P1 Block Chain Practical (Semester -IV)

Seat No: _____ **Max. Marks: 50**

Q.1	Install hyperledger fabric and composer. Deploy and execute the application.	**20**
Q.2	Write a program to demonstrate mining of Ether.	**20**
Q.3	Viva	**5**
Q.4	Journal	**5**

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PSIT4P1 Block Chain Practical (Semester -IV)

Seat No: _____ **Max. Marks: 50**

Q.1	Demonstrate the running of the blockchain node.	**20**
Q.2	Demonstrate the use of Bitcoin Core API.	**20**
Q.3	Viva	**5**
Q.4	Journal	**5**

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Practical Examination First Half (2023)
PSIT4P1 Block Chain Practical (Semester -IV)

Seat No: _____ **Max. Marks: 50**

Q.1	Create your own blockchain and demonstrate its use.	**20**
Q.2	Build and Demonstrate the Dapps with angular.	**20**
Q.3	Viva	**5**
Q.4	Journal	**5**

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PSIT4P1 Block Chain Practical (Semester -IV)

Seat No: _____ **Max. Marks: 50**

Q.1	Use Remix IDE to develop an deploy solidity code on Ethereum VM.	**20**
Q.2	Write a program for a simple client class that generates the private and public keys by using the built-in Python RSA algorithm and test it.	**20**
Q.3	Viva	**5**
Q.4	Journal	**5**

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PSIT4P1 Block Chain Practical (Semester -IV)

Seat No: _____ **Max. Marks: 50**

Q.1	Write a program for a transaction class to send and receive money and test it.	**20**
Q.2	Write a program for Blockchain in Python to Create multiple transactions and display them.	**20**
Q.3	Viva	**5**
Q.4	Journal	**5**

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PSIT4P1 Block Chain Practical (Semester -IV)

Seat No: _____ **Max. Marks: 50**

Q.1	Write a program to Create a blockchain, a genesis block and execute it.	**20**
Q.2	Write a program to Create a mining function and test it	**20**
Q.3	Viva	**5**
Q.4	Journal	**5**

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PSIT4P1 Block Chain Practical (Semester -IV)

Seat No: _____ **Max. Marks: 50**

Q.1	Install hyperledger fabric and composer. Deploy and execute the application.	**20**
Q.2	Demonstrate the running of the blockchain node.	**20**
Q.3	Viva	**5**
Q.4	Journal	**5**

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Q.4	Journal	**5**

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Q.3	Viva	**5**
Q.4	Journal	**5**

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Q.1	Write a program for a transaction class to send and receive money and test it.	**20**
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Q.3	Viva	**5**
Q.4	Journal	**5**

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PSIT4P1 Block Chain Practical (Semester -IV)

Seat No: _____ **Max. Marks: 50**

Q.1	Write a program for Blockchain in Python to Create multiple transactions and display them.	**20**
Q.2	Write a program to Create a mining function and test it.	**20**
Q.3	Viva	**5**
Q.4	Journal	**5**

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Q.4	Journal	**5**

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Seat No: _____ **Max. Marks: 50**

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Q.4	Journal	**5**

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Seat No: _____ **Max. Marks: 50**

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Q.3	Viva	**5**
Q.4	Journal	**5**

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Seat No: _____ **Max. Marks: 50**

Q.1	Implement and demonstrate the use of the following in Solidity: Functions, Function Modifiers, View functions, Pure Functions.	**40**
Q.2	Viva	**5**
Q.3	Journal	**5**

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Seat No: _____ **Max. Marks: 50**

Q.1	Implement and demonstrate the use of the following in Solidity: Fallback Function, Function Overloading, Mathematical functions, Cryptographic functions.	**40**
Q.2	Viva	**5**
Q.3	Journal	**5**

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Seat No: _____ **Max. Marks: 50**

Q.1	Implement and demonstrate the use of the following in Solidity: Enums, Structs, Mappings, Conversions, Ether Units, Special Variables.	**40**
Q.2	Viva	**5**
Q.3	Journal	**5**

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Seat No: _____ **Max. Marks: 50**

Q.1	Implement and demonstrate the use of the following in Solidity: Variable, Operators, Loops, Decision Making, Strings, Arrays,	**40**
Q.2	Viva	**5**
Q.3	Journal	**5**

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Seat No: _____ **Max. Marks: 50**

Q.1	Implement and demonstrate the use of the following in Solidity: Libraries, Assembly, Events, Error handling.	**40**
Q.2	Viva	**5**
Q.3	Journal	**5**

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Seat No: _____ **Max. Marks: 50**

Q.1	Implement and demonstrate the use of the following in Solidity: Contracts, Inheritance, Constructors, Abstract Contracts, Interfaces	**40**
Q.2	Viva	**5**
Q.3	Journal	**5**

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Seat No: _____ **Max. Marks: 50**

Q.1	Implement and demonstrate the use of the following in Solidity: Withdrawal Pattern, Restricted Access.	**40**
Q.2	Viva	**5**
Q.3	Journal	**5**