Name:

**Enrolment No:** 



## UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, December 2022

## Course: Introduction to BlockChain Program: BTech CSE CSF/AI&ML/GG/BAO/CCVT/BigData/DevOps Course Code: CSBL3012P

Semester: V Time: 03 hrs. Max. Marks: 100

## **Instructions:**

	SECTION A (5Qx4M=20Marks)		
S. No.		Marks	СО
Q 1	What is collision resistant feature of hashing?	4	CO1
Q 2	What is double spending problem and provide one solution.	4	CO2
Q 3	Provide 4 advantages of hyper ledger fabric.	4	CO4
Q 4	Differentiate in private and public keys in blockchain.	4	CO2
Q 5	Differentiate between centralized and distributed architecture.	4	CO1
	SECTION B		
	(4Qx10M= 40 Marks)		
Q 6	Discuss Blockchain in Finance. Explain advantages and disadvantages in current system and block chain use case.	10	CO4
Q 7	Explain Privacy preserving policy in Blockchain and discuss in context of different ids.	10	CO2
Q 8	Discuss ledger update issues in blockchain. Differentiate between hyper ledger and hyper ledger fabric.	10	CO3
Q 9	Explain blockchain usecase in healthcare. Or Explain blockchain in Supply chain.	10	CO5
	SECTION-C (2Qx20M=40 Marks)		
Q 10	Explain Blockchain ledger, working principle and data update policy in blockchain. How it is associated with transfer of ownership. Draw the diagrams and explain answer stepwise.(6+4+6+4)	20	CO5
Q 11	Discuss hashing properties and how it is used in blockchain. Explain hashing algorithm and triple-blind privacy principle and functionality.(4+4+6+6)		
	Or	20	CO3
	Discuss membership identification problem in blockchain. How it is associated with owner identification problem. Discuss solution to membership identification problem in blockchain with diagram.(5+5+10)		