

				 Sub	ject	Coc	le: k	(CA	.041
Roll No:									

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MCA (SEM IV) THEORY EXAMINATION 2021-22 BLOCKCHAIN ARCHITECTURE

Time: 3 Hours Total Marks: 100

Note: Attempt all Sections. If you require any missing data, then choose suitably.

		2x10 =
Qno	Questions	СО
(a)	What are the components of block in blockchain?	1
(b)	How much time elapsed in creation of block?	1
(c)	What is state machine replication in permissioned blockchain?	2
(d)	What are common use cases of distributed consensus?	2
(e)	List Different configuration options for ordering service.	3
(f)	List out different types of peer nodes used in Hyperledger framework.	3
(g)	What do you mean by Invoice discounting?	4
(h)	Explain the limitations of Capital market.	4
(i)	Describe Decentralized entity.	5
(j)	How blockchain is helpful in Social welfare Systems.	5
07	SECTION B	
Atte	empt any three of the following:	10x3
Qno	Questions	CO
(a)	What is blockchain? Explain the different types of Blockchain.	1
(b)	Why consensus is necessary in blockchain? Discuss the Proof of Work Algorithm.	2
(c)	Explain the Network Setup in Hyperledger Fabric.	3
(d)	What are the benefits to use blockchain in Insurance Industry? Explain use cases of insurance industry.	4
(e)	Examine Process of Public Distribution System.	5
	SECTION C	ļ
Atte		10x1 =
Qno	Questions	CO
(a)	What is hash in blockchain? How is it calculated? What is the relationship between hashing and blockchain?	1
(b)	Explain Bitcoin – Blockchain Technology.	1
	8:	10x1 =
(a)	What are the requirements of Consensus protocols?	2
(b)	What are different factors of Scalability aspects for Blockchain Consensus? Discuss the solutions to achieve the scalability.	2
	1 1 8	10x1 =
(a)	What are the different components of Hyperledger Fabric? Identify the process	3
	of Identity assignment to various entity in the Hyperledger Fabric.	
(b)	What are the features of Hyperledger Fabric's Explain the transaction flow in	
(b)	What are the features of Hyperledger Fabric? Explain the transaction flow in Hyperledger fabric	3
, ,	Hyperledger fabric.	
, ,	Hyperledger fabric.	10x1 =
Atte	Hyperledger fabric. mpt any one part of the following: What is process of KYC in different organizations? Explain the different steps of	$\frac{1}{10x1} =$
Atte	Hyperledger fabric. mpt any one part of the following: What is process of KYC in different organizations? Explain the different steps of KYC in Blockchain. Analyze various use cases of Capital markets.	$\frac{10x1}{4}$
Atte	Hyperledger fabric. mpt any one part of the following: What is process of KYC in different organizations? Explain the different steps of KYC in Blockchain. Analyze various use cases of Capital markets.	10x1 =