Code: 20A05703b

R20

B.Tech IV Year I Semester (R20) Regular Examinations December/January 2024
BLOCKCHAIN TECHNOLOGY AND APPLICATIONS
(Common to IT, AI&DS, CSE (AI), CSE (AI&ML), CSE (DS), CSE (IOT) and CSE)

Time: 3 hours

Max. Marks: 70

PART – A
(Compulsory Question)
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1		Answer the following: (10 X 02 = 20 Marks)	
	(a)	What is Blockchain?	2M
	(b)	What are the different areas of blockchain technology?	2M
	(c)	What is consensus?	2M
	(d)	What is a curency token?	2M
	(e)	What are the different obstacles for use of block chain?	2M
	(f)	How cryptographic tokens work?	2M
	(g)	What is Ethereum?	2M
	(h)	What is truffle?	2M
	(i)	What is Hyper ledger fabric?	2M
	(j)	What is an Initial Coin Offering (ICO)?	2M

PART – B
(Answer all the questions: 05 X 10 = 50 Marks)

2	(a)	Explain decentralized applications of blockchain in detail.	5M
	(b)	Explain stages in blockchain evolution in brief.	5M
		OR	
3	(a)	Elaborate types of players in blockchain ecosystem.	5M
	(b)	Discuss features of consortium blockchain.	5M
4	(a)	Elaborate structure of a block.	5M
	(b)	Elaborate life cycle of blockchain transaction.	5M
		OR	
5	(a)	Explain different types of blockchain nodes.	5M
	(b)	How to use blockchain for data storage?	5M
6	(a)	Explain hybrid blockchain with its advantages and disadvantages.	5M
	(b)	Elaborate blockchain relevance evaluation framework.	5M
		OR	
7	(a)	Discuss obstacle for use of block chain.	5M
	(b)	Discuss four applications of blockchain.	5M
8	(a)	Explain tuna fish tracking use case in brief.	5M
	(b)	Elaborate Ethereum Virtual Machine in detail.	5M
		OR	
9	(a)	Explain my ether wallet in brief.	5M
	(b)	What are the different applications of smart contract?	5M
10	(a)	Explain in detail about hyperledger fabric transaction flow.	5M
	(b)	Explain Inter planetary File System in brief.	5M
		OR	
11	(a)	Elaborate FabCar use case implementation in brief.	5M
	(b)	How does IOT work with blockchain? Explain benefits of blockchain in IOT.	5M

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