

Reg. No.

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B.E / B.TECH. DEGREE EXAMINATIONS, MAY 2024

Eighth Semester

CS18006 – BLOCKCHAIN TECHNOLOGY*(Computer Science and Engineering)***(Regulation 2018/2018A)****TIME:3 HOURS****MAX. MARKS: 100**

COURSE OUTCOMES	STATEMENT	RBT LEVEL
CO 1	Students will be able to recognize the importance of Blockchain technology	2
CO 2	Students will be able to explain the challenges and design issues in bitcoin technology.	4
CO 3	Students will be able to categorize the platforms developed for Blockchain	3
CO 4	Students will be able to use appropriate techniques to study impacts of industry	4
CO 5	Students will be able to use the block chain resources and projects.	5

PART- A (10x2=20Marks)

(Answer all Questions)

		CO	RBT LEVEL
1.	State the difference between a wallet and a node.	1	2
2.	Give the importance of Genesis Block.	1	2
3.	What are DApps and list its significance.	2	1
4.	Give any four real use cases for Ethereum.	2	2
5.	What is double spending and how can this be overcome?	3	2
6.	Summarize the advantages of endorsement policy in Hyperledger.	3	2
7.	How Blockchain technology has impacted various industries?	4	2
8.	Write any four public-private collaborations made by Dubai's Global Blockchain Council.	4	1
9.	How does Factom University benefit the Blockchain enthusiasts?	5	2

10. State the three pillars of R3.

5 2

PART- B (5x 14=70Marks)

	Marks	CO	RBT LEVEL
11. (a) Explain in detail about the various consensus algorithms in Blockchain.	(14)	1	2
(OR)			
(b) (i) Discuss on how Blockchain is revolutionizing the world?	(7)	1	2
(ii) Elaborate Blockchain transaction lifecycle with a neat sketch.	(7)	1	2
12. (a) Inspect the impact of Ethereum on the evolution of Blockchain technology by considering its unique features and capabilities.	(14)	2	4
(OR)			
(b) Examine in detail about Smart Contracts.	(14)	2	4
13. (a) (i) How BaaS is provided in Microsoft Azure platform?	(7)	3	3
(ii) Explain the reference architecture of Hyperledger with a neat diagram.	(7)	3	3
(OR)			
(b) Explain in detail about the steps involved in building a network in BigBlue?	(14)	3	3
14. (a) Analyze the impact of Blockchain technology in the Government and Lean Government Sectors.	(14)	4	4
(OR)			
(b) Analyze how the Trust layer on the Internet is benefitted from the impact of Blockchain technology.	(14)	4	4
15. (a) Inspect in detail about the transformations made by Bitfury in the management of digital assets.	(14)	5	4
(OR)			
(b) (i) State the ten rules that are to be followed in Blockchain.	(7)	5	4
(ii) Examine in detail about the Blockchain's distributed system.	(7)	5	4

PART- C (1x 10=10Marks)

(Q.No.16 is compulsory)

Marks CO RBT

16. Assess how Blockchain technology have revolutionized insurance industry.

(10)

4

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