C

Question Paper Code: 99218

B.E./B.Tech. DEGREE EXAMINATION, APRIL 2024

Elective

Computer Science and Engineering

19UCS918- BLOCKCHAIN TECHNOLOGY

(Régulations 2019)

Duration: Three hours   Maximum: 100 Marks

Answer ALL Questions

PART A - (5 x 1 = 5 Marks)

1. What does the block in the block chain consist of?   CO1- U

   (a) Transaction data   (b) Hash point   (c) A Timestamp   (d) All of the above

2. Bitcoin was created by?   CO1- U

   (a) John Mcafee   (b) Satoshi Nakamoto   (c) Alon musk   (d) None of above

3. Who introduced the digital Crypto Currency Known as Ethereum?   CO1- U

   (a) Satoshi Nakamoto   (b) Wei Dai   (c) Nick Szabo   (d) Vitalik Butrin

4. What are the potential applications of blockchain   CO1- U

   (a) Voting   (b) Settling Trades   (c) Health Records   (d) All of the Above

5. How do you interact with accounts of a Dapp from a browser?   CO1- U

   (a) Through Ganache   (b) Through Remix   (c) Through meat mask   (d) Through Oraclize

PART – B (5 x 3= 15 Marks)

6. Define Blockchain Foundation.   CO1- U

7. Difference between Bitcoin and Ethereum Blockchain   CO1- U

8. What is SWARM?   CO1- U

9. What is Enterprise Blockchain?   CO1- U

10. How will you run the first node of the private network?   CO1- U

PART – C (5 x 16= 80 Marks)

11. (a) Explain the concept of a block and its layers in detail.   CO1- U   (16)

Or

    (b) Explain the Cryptographic Hash function in detail.   CO1- U   (16)

12. (a) Explain the Bit coin Block chain Network on the Internet   CO1- U   (16)

Or

    (b) Explain the Block Structure of Bit coin Block chain in detail.   CO1- U   (16)

13. (a) Describe about Ethereum Features and Structure of Ethereum Block chain in detail.   CO1- U   (16)

Or

    (b) Write about Smart Contracts. Explain how Smart Contracts help them to do the Ethereum Transaction?   CO1- U   (16)

14. (a) Explain Block chain Applications in Business in detail.   CO1- U   (16)

Or

    (b) Explain how Block chain helpful for business with examples.   CO1- U   (16)

15. (a) In a Voting Systems, people would be able to create a new poll, and in that poll, they would be able to mention different choices. Users would place their vote for one of the mentioned choices. You'll set a voting period and everybody will be able to vote. At the end of the voting period, one of the choices would be the winner. Use the above criteria, How to Create Polling system DApp using smart contract in Brief?   CO2- App   (16)

Or

    (b) Identify suitable Block chain use cases to create DApp can be used to achieve stakeholder goals e.g. to save a parking spot, start a parking session, extend a parking session or handle the payment.   CO2- App   (16)

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