BE/Sem VIII) & Scheme

Monish M.

Paper / Subject Code: 53171 / Block Chain and DLT

| Duration: 3hrs | Par Mary Ed |
|--|---------------------------------------|
| [Max Marks | :80] |
| N.B.: (1) Question No 1 is Compulsory. | City self |
| (2) Attempt any three questions out of the remaining five. | The Flat |
| (3) All questions carry equal marks, (4) Assume suitable data, if required and state it clearly. | " " " " " " " " " " " " " " " " " " " |
| OI Clearly. | AT ST |
| (3) All questions carry equal marks, (4) Assume suitable data, if required and state it clearly. Q1 Attempt any four | Marks |
| " Hat is a block header/ Howare blocks linked in blade in a | 5 86 |
| b Enumerate the interoperability and scalability issues in Hyperledger fabric. Explain Simplified Payment Verification Nodes, What is the Privacy | 5 |
| Boldton 101/31 v 1100les/ | D15 20° |
| d List the different advantages and disadvantages of ICO. | 8 5 5 EST. |
| e. What is nonce in blockchain and how does it work? | 5017 |
| | Se OF |
| Q2 a What is a Blockchain fork? Differentiate between soft fork and hard fork. | D10 D |
| | 50 50 |
| b Describe the various projects covered under Hyperledger umbrella projects. | 1009 |
| Q3 a. Discuss the different challenges addressed by blockchain in the Energy | " Pto. |
| Sector. | -95 ⁰ 10 |
| b Differentiate between Bitcoin blockchain and Ethereum Blockchain. | 10 |
| TO A A A A A A A A A A A A A A A A A A A | and for the service you |
| Q4 a Explain bitcoin mining with the help of a neat diagram. | 10 |
| b Explain different List and explain the parts of EVM memory. | 10 |
| : M. C. N. J. C. O. O. | |
| Q5 a. What is an ERC20 token? Explain the steps to create ERC20 tokens. | 10 |
| b With the help of a suitable diagram explain the life-cycle of a smart contract | 10 |
| . in Ethereum. | |
| Write short notes on (any 4) | 20 |
| a Key features of blockchain | 20 |
| | |
| b. EOA and contracts address | |
| c UTXO in Bitcoin | |
| | |
| d Stock Trading Offering | |
| e, Channels in Hyperledger Fabric | |
| 37 - 2 Dr 20 | |