Exam.Code: 1047 Sub. Code: 7635

2122

M.E. Computer Science and Engineering (Cyber Security) Third Semester CSN-8301: Block Chain

Time allowed: 3 Hours

Max. Marks: 50

NOTE: Attempt <u>five</u> questions in all, including Question No. 1 which is compulsory and selecting two questions from each Unit.

x-x-x

| 1 | . Aı | nswer the following:- | |
|-------------|---|--|------|
| | a) | What is Cryptocurrency? | |
| | b) | 의 사용사용 전 시간 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 | |
| | c) | How does peer discovery work in a peer-to-peer (P2P) network? | |
| | d) | What is proof-of-work? | |
| | e) | MANGAGAN CONTROL C | |
| | | | 5x2) |
| | | UNIT - I | |
| 12 | -> | | |
| 2 | | How does blockchain work? What is the blockchain data structure? What type of records can be kept in blockchain? | 5 |
| | b) | Why is blockchain a trusted approach? What are the key principles in a blockchain that help in eliminating security threats? | 5 |
| <i>!</i> 3. | a) | What are the different types of blockchains? Explain why a blockchain needs tokens to operate. | 5 |
| | b) | How are transactions and blocks encrypted in the Bitcoin implementation? | 5 |
| 4. | Wi | th suitable example, explain the following: | |
| | a) | Blockchain distributed database | |
| | b) | Mining | |
| | c) | Chain fork | 10 |
| | d) | Consensus Algorithm | |
| | e) | Smart Contract | |
| | | <u>UNIT - II</u> | |
| | | | |
| 5. | a) | What Is Ethereum? What Is the Difference Between Ethereum And Bitcoin Blockchain? | 5 |
| | b) | Explain the significance of Federated Blockchain. | 5 |
| .6 . | a) | What is Blockchain as a Service? What novel Blockchain 3.0 adds on to Blockchain 2.0? | -5 |
| | b) | How Blockchain is Revolutionizing the Traditional Business Network? Explain with example? | 5 |
| 7. | Hov | v can blockchain be used in reducing verification time, royalty payments for right | 10 |
| | owners, content creators and tamper proof certification applications, respectively? | | |