

MASTER OF COMPUTER APPLICATION
FOURTH SEMESTER
INTRODUCTION TO BLOCKCHAIN AND ITS APPLICATION
MCA-404 [CCEC]

SET
B

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 1hr. 30 mins.

Full Marks: 35

Time: 15 mins.

Marks: 10

(Objective)

Choose the correct answer from the following:

1 × 10 = 10

1. What is a blockchain?
 - a. It is a centralized ledger consisting of records of blocks
 - b. It is a decentralized, distributed, digital ledger consisting of records of blocks
 - c. It is a digital database consisting of records
 - d. It is a private ledger consisting of records of blocks
2. What is Proof of Stake?
 - a. Method for creation of private keys
 - b. Certificate required for blockchain usage
 - c. Consensus mechanism
 - d. Password for accessing blockchain
3. What represents a node in blockchain technology?
 - a. A type of cryptocurrency
 - b. A blockchain
 - c. A computer on a blockchain network
 - d. A transaction
4. "The central idea is to have nodes solve complex mathematical puzzles and make as many guesses as possible in the fastest possible time" istype of Consensus algorithm.
 - a. Proof of Stake
 - b. Proof of Work
 - c. Proof of Authority
 - d. Detailed Proof of Work
5. InBlockchain, users allow to transfer assets between two blockchain networks without relying on a third party to hold or manage the assets.
 - a. Trusted
 - b. Trustless
 - c. Both a & b
 - d. Proof of capacity
6. Theis the first payment network that is fully autonomous and self-sustaining, where no single party can intervene in or terminate it.
 - a. Digital Currency
 - b. Bitcoin
 - c. Cashless transactions
 - d. All of the above
7. Immutability is one of the majorof blockchain.
 - a. Feature
 - b. Advantage
 - c. Both a & b
 - d. Disadvantage
8. Where does the cryptocurrency is kept?
 - a. E-wallet
 - b. Bank account
 - c. Both a & b
 - d. Cash in hand

9. What is the incentive for miners to validate transactions?
- a. Appreciation of the community
 - b. Additional memory
 - c. Proof of Work
 - d. Block Rewards
10. Bitcoin is a, which is an application of Blockchain.
- a. Electronic payment method
 - b. E-Commerce
 - c. Crypto currency
 - d. E-Governance

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(Descriptive)

Time : 1 hr. 15 mins.

Marks : 25

[Answer question no.1 & any two (2) from the rest]

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|---|----------|
| 1. What is digital and virtual currency system? | 5 |
| 2. What is Consensus Algorithm? How does it work with Blockchain?
Explain any three types of consensus algorithm used in blockchain. | 2+2+6=10 |
| 3. Describe how Bitcoin impact on Indian Society and how it can impact in future. | 10 |
| 4. a) Describe the working principle of Bitcoin.
b) Differentiate between trusted and trustless blockchain. | 5+5=10 |
| 5. Explain the Impact of Digital Currency Revolution. | 10 |

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