

2111040102040003
EXAMINATION MARCH-APRIL 2024
MASTER OF COMPUTER APPLICATION
(SECOND SEMESTER)
BLOCKCHAIN TECHNOLOGY(COURSE-204)
- LEVEL 4

[Time: As Per Schedule]

[Max. Marks: 70]

Instructions:

1. Fill up strictly the following details on your answer book
 - a. Name of the Examination : **MASTER OF COMPUTER APPLICATION (SECOND SEMESTER)**
 - b. Name of the Subject : **BLOCKCHAIN TECHNOLOGY(COURSE-204) - LEVEL 4**
 - c. Subject Code No : **2111040102040003**
2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

Seat No:

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Student's Signature

Q.1 Answer the following questions (Any TWO):

14

- A. What is the use of abstract contract in Solidity?
- B. Explain Permission less Block chain. State its characteristics.
- C. Explain Markle Tree in detail.

Q.2 Answer The following questions (Any TWO):

14

- A. Explain any two Types of Consensus Mechanisms.
- B. Explain characteristics of hashing functions.
- C. Is it possible for few peers to form a group and dominate in POS consensus mechanism? Discuss.

Q.3 Answer the following questions (Any TWO): **14**

- A. What is Smart Contract? Explain.
- B. Discuss how Block chain helps in non-repudiation.
- C. Explain hyper ledger fabric workflow.

Q.4 Answer the following questions: **14**

- A. Explain how Block chain can change the way the business can work, citing the use case of ice cream supply chain to a Restaurant.
- B. What is mapping in Solidity? How can it be used in Solidity programs?

Q.5 Answer the following questions: **14**

- A. Write a detail note on storage areas in Solidity and how its proper use can affect the gas price.
- B. What is the use of modifier in Solidity? Explain with an example.

OR

Write a note on various data types in Solidity.
