

Total No. of Questions : 8]

SEAT No. :

P-7832

[Total No. of Pages : 2

[6181]-365

B.E. (AI & ML)

BLOCKCHAIN TECHNOLOGY

(2019 Pattern) (Semester - VII) (Elective - III) (418544B)

Time : 2½ Hours]

[Max. Marks : 70

*Instructions to the candidates:*

- 1) Attempt Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right side indicate marks.
- 4) Assume suitable data, if necessary.

- Q1)** a) List down different tools in Ethereum Ecosystem along with their purpose and use. [9]
- b) Explain following datatypes in Solidity programming with example. [9]
- i) Enum
  - ii) Mapping
  - iii) Address

OR

- Q2)** a) What is wallet? Make use of MyEtherwallet example to explain the Ethereum Account concept. [9]
- b) Organise elements of Ethereum tool stack as per their application. [9]
- Q3)** a) Identify distinguishing features of Hyperledger fabric over traditional blockchain. [8]
- b) Prepare list of different components of Hyperledger fabric with its significance. [9]

OR

- Q4)** a) Set up a fabric network with two organizations. [8]
- b) Differentiate between the Ethereum and Hyperledger platforms. [9]

**P.T.O.**

- Q5)** a) Differentiate between : [8]
- Fungible Token vs. Non-Fungible Token
  - Cardano (ADA) vs. Riiple (XRP)
- b) Explain in detail types of Cryptocurrecies and Tokens. [6]
- c) Describe features of Tokens. [4]

OR

- Q6)** a) Describe the Consensus mechanism in brief. [7]
- b) Explain the Proof of Activity consensus algorithm. [5]
- c) Write a short note on i) Proof of Work ii) Proof of Activity [6]

- Q7)** a) What are the main features of a blockchain platform? [8]
- b) What is the role of the blockchain platform in the business? [9]

OR

- Q8)** a) Short Note : [8]
- i) Ransomware
  - ii) Money Laundering
- b) What determines the adoption rate of a specific blockchain technology?[4]
- c) What are the benefits of Blockchain in various scenarios? [5]

