

Total No. of Questions : 8]

SEAT No. :

PE2268

[Total No. of Pages : 2

[6584]-172

**B.E. (Information Technology)
BLOCKCHAIN TECHNOLOGY**

(2019 Pattern) (Semester - VIII) (414452D) (Elective - VI)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q. 6, Q.7 or Q. 8.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data, if necessary.

- Q1)** a) Which are components of Ethereum Ecosystem explain in detail. [7]
b) Explain how smart contract work in detail. [6]
c) Explain blockchain platform in detail. [5]

OR

- Q2)** a) What is Ethereum programming language Explain in detail. [7]
b) Write Short Note on- [6]
i) Block & Blockchain
ii) Ethereum feature
c) Explain Runtime Byte Code in detail. [5]

- Q3)** a) State and explain benefits of Hyper ledger Fabric. [6]
b) Which are advantages of Hyperledger. [6]
c) Differences between Blockchain & Hyper ledger. [5]

OR

- Q4)** a) What is the use of Hyperledger in blockchain? [6]
b) How Does Hyper Ledger Fabric Work? Explain. [6]
c) What kind of applications can be built on Hyperledger fabric? [5]

P.T.O.

- Q5) a)** Short note on- [7]
- i) Consensus Mechanism
 - ii) Proof of activity
- b) Describe Tokenizing Shares and Fund Raising in detail. [6]
- c) How are tokenization and blockchain technology related? [5]

OR

- Q6) a)** Explain how blockchain tokenization help in enterprise system in detail.[7]
- b) State and explain different types of Consensus algorithm. [6]
- c) How can a token be backed by a physical asset? [5]

- Q7) a)** Explain benefits of blockchain in various scenarios. [6]
- b) Explain legal aspect of money laundering and ransomware. [6]
- c) State and explain different aspect of healthcare where Blockchain Technology can be used. [5]

OR

- Q8) a)** Explain any two application areas of Blockchain Technology. [6]
- b) Explain security risk of blockchain. [6]
- c) Explain merits and demerits of Blockchain technology. [5]

