

Total No. of Questions : 8]

SEAT No. :

PA-1631

[Total No. of Pages : 2

[5926]-265

T.E. (Electronics and Telecommunication) (Honors)

BLOCK CHAIN TECHNOLOGY

Introduction to Block Chain

(2019 Pattern) (Semester - I) (304181 HBCT)

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) What are the different core components in Blockchain? Explain. [9]

b) Compare permissionless and permissioned blockchain. [8]

OR

Q2) a) What are the different types of blockchain? Explain private blockchain in detail. [9]

b) What are the prominent applications of blockchain? Explain anyone in detail. [8]

Q3) a) What is a ledger in block chain? Name the common types of ledgers that can be considered by users in the blockchain. [6]

b) Explain bitcoin Mechanism. How does bitcoin uses blockchain. [6]

c) What is Hyperledger w.r.to blockchain technology? Explain. [5]

OR

Q4) a) What is bitcoin and explain advantages and disadvantages of bitcoin. [6]

b) What is Trust in blockchain ? Explain w.r.to Financial services. [6]

c) What is Hyperledger composer? Explain. [5]

Q5) a) Explain the cloud based blockchain in detail? [6]

b) What is Multichain? Explain how multichain works? [6]

c) What is stellar? How the stellar is used in blockchain. [6]

OR

P.T.O.

- Q6)** a) What makes multichain unique? Also, explain what is MULTI token? [6]
b) How the secure service is provided using cloud based blockchain? [6]
c) Explain the following w.r.to blockchain. [6]
i) R3 corda
ii) Ripple

- Q7)** a) How the blockchain is used in supply chain management ? Explain. [6]
b) What is the future of blockchain in health care system? Explain. [6]
c) Explain the voting system in the blockchain technology? [6]

OR

- Q8)** a) Explain the importance of blockchain in land records. [6]
b) Write a note on “Loyalty programs” w.r.to blockchain. [6]
c) How a blockchain is used to support sustainable business practices. [6]

