Total No. of Questions : 4]

SEAT No. :

PE-187

[Total No. of Pages : 2

[6580]-547

B.E. (Computer Engineering) (Insem.)

BLOCK CHAIN TECHNOLOGY

(2019 Pattern) (Semester - VII) (410243)

Time : 1 Hour] *[Max. Marks : 30*

Instructions to the candidates:

1) ***Answer Q1 or Q2, Q3 or Q4.***
2) ***Neat diagrams must be drawn wherever necessary.***
3) ***Figure to the right indicates full marks.***

Q1) a) Explain the working of SHA-256 Algorithm. **[6]**

b) Describe asymmetric key encryption with neat diagram. **[4]**

c) What is Merkle tree? Explain the structure of merkle tree. **[5]**

OR

Q2) a) Illustrate Elleptic curve cryptography with detail steps. **[6]**

b) How digital signature & Verification is carried out in digital signature algorithm. **[4]**

c) List and explain the features of hashing functions. **[5]**

Q3) a) Define the terms with suitable example. **[6]**

i) Consensus

ii) Distributed ledger

b) List & explain features of Block chain. **[4]**

c) Write a note on Propagation Layer & Application Layer. **[5]**

OR

P.T.O.

Q4) a) Discuss various limitations of centralized system with respect to De-centralized system. **[6]**

b) Explain the Evolution of Block chain with time line. **[4]**

c) What do you think, which limitations of block chain are major hurdl's in its adoption. **[5]**